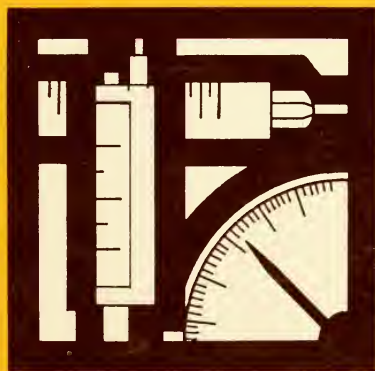




Medical
College of
Georgia

Augusta

Catalog 1975-77



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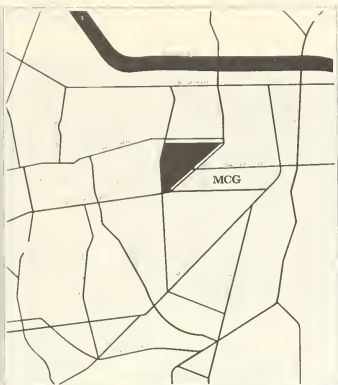
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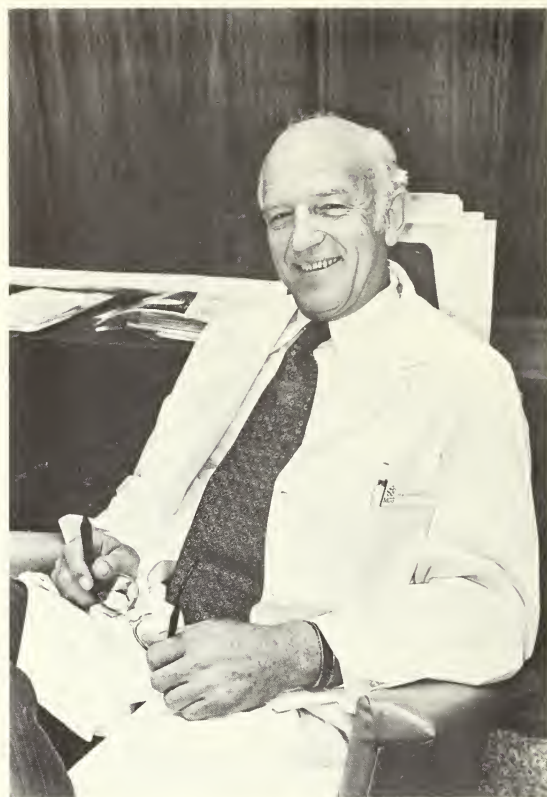
This edition of the Medical College of Georgia *Catalog* is intended to provide for you and for others interested in health education, some essential information about Georgia's primary health sciences university. Designed primarily for new and prospective students and faculty, the descriptive material will assist you in learning more about us—our character, heritage, objectives; our academic programs, distinguished faculty, and our admissions and degree requirements and procedures to name just a few.

This *Catalog* also contains detailed descriptions of many of our courses of instruction and related information to assist you in choosing a program that best meets your needs.

As you review this material, I hope you will better understand the importance and seriousness of our purpose here at the Medical College of Georgia; namely, to provide sound, comprehensive academic and clinical programs that will help our students become competent, qualified health professionals.

I have a great deal of personal pride in our institution and in our faculty and students. We shall continue to strive for a high degree of excellence in our educational programs, our research, and ultimately in our ability to provide better health care for all mankind. I invite you to join with us in this endeavor.

William H. Moretz, M.D.
President
Medical College of Georgia



A History of the Medical College of Georgia

The Medical College of Georgia in Augusta is the eleventh oldest among existing medical schools in the United States. Founded in 1828, it is Georgia's primary institution of higher education for training health professionals.

The College has experienced rapid growth, particularly during the past quarter century. For example, in 23 years the campus physical plant has grown from just two buildings on little more than two acres of land to 47 buildings on approximately 78 acres of land today. Two new buildings are presently under construction.

In 1950 there was one school—the School of Medicine, the core upon which the Medical College of Georgia was founded. Today, there are four additional schools—Graduate Studies, founded in 1951; Nursing, moved to Augusta from Athens in 1956; Dentistry, founded in 1965; and Allied Health Sciences, founded in 1968.

Another indicator of the College's growth is its

student enrollment. This fall, the College expects to receive the largest enrollment in its history. More than 3,500 faculty and staff personnel make the Medical College of Georgia Augusta's largest single employer.

The beginnings of this medical center were somewhat less impressive than the present modern campus. The College was started in two borrowed rooms at the rear of Augusta's old City Hospital 145 years ago, with its assets consisting of little more than the vision of its founders. It was in those early years that Drs. Milton Antony, Joseph Adams Eve, Lewis D. Ford, and later L.A. Dugas and Paul Eve, with the support of many Augusta citizens, began building the rich heritage that the Medical College now enjoys.

In 1833 members of the first graduating class received their doctor of medicine degrees. There were four students in that graduating class. In 1974 the College graduated approximately 149

physicians, 60 dentists, 225 undergraduate and 50 graduate nurses, 15 biomedical scientists, and 140 professionals trained in fields of allied health science. Additionally, MCG now provides graduate education for more than 200 interns and residents each year.

Even in the early days of the Medical College, changes came quickly. In 1835 the College moved into its first permanent home at the corner of Telfair and Sixth streets in Augusta. This building, now called the Old Medical College and presently operated as a garden center, was vacated by the College in 1913, when the institution moved to its present mid-city campus consisting then of two buildings. Except for a brief interim during the Civil War, the Medical College has operated continuously since its founding.

From 1913 to 1950 the College experienced good times and bad. Faculty members as well as students were called to service in World Wars I and II. The College received varying accreditation ratings from the Council on Medical Education of the American Medical Association. There were fat years and there were lean years for State appropriations, and the depression did not spare the Medical College either. There were battles about the relocation of the College from Augusta to both Atlanta and Athens, and there were dynamic changes in curriculum. Also during this period, *The University System of Georgia* was established and the College celebrated its 100th anniversary.

In 1950 the Board of Regents of the University System made the Medical College an independent

unit of the University System, and for the sixth time in 125 years the institution received a new name—Medical College of Georgia.

A vital adjunct to the Medical College's programs is its 450-bed teaching hospital, Eugene Talmadge Memorial Hospital and its various clinics. The founders of the College certainly could not have foreseen the rise of a great teaching hospital, as part of the MCG medical complex known today. Talmadge Memorial Hospital is the major referral center for the State; patients come to Augusta from throughout Georgia, and a dozen other states, because of Talmadge's rising reputation for the care of complex and difficult diseases. Last year, for example, the Hospital provided care for some 330 patients a day, and the College's medical and dental clinics recorded more than 130,000 outpatient visits during the year.

Neither could the founders have anticipated the honors and recognition that would mark the College's first century and a half of service to the cause of health care, health education and research on behalf of the people of Georgia. There was world-wide acclaim when Dr. Virgil Sydenstricker uncovered evidence that led to the conquest of pellagra. Dr. W.L. Moss, another MCG physician, was responsible for developing knowledge that led to the now familiar grouping of blood into three basic types. Still another Medical College of Georgia researcher, Dr. W.L. Hamilton, developed instruments and techniques which were vital forerunners of present-day open heart surgery.

Other research scientists in recent years have



made important contributions to the world's knowledge of cancer, cardiovascular disease, sickle cell anemia; and scored advances in freezing and preserving human organs, in surgical techniques, and in the use of new materials in place of bone in dentistry.

MCG's rapid growth and expansion program of the late 1950's and on through the 1960's to today is an indication that the College is sincere about fulfilling its mandate from the people of Georgia to provide the highest quality health care available.

The University System

The University System of Georgia was established in 1931 when control and operational authority over state-aided schools of higher learning were vested in the University System Board of Regents, a constitutional body appointed by the Governor and approved by the Senate. There are fifteen Regents, all serving terms of seven years. Members of the Board are appointed from each of the state's Congressional Districts and the remainder from the state-at-large. The Regents select their own officers and appoint a chancellor as chief administrator of the University System. The system consists of 32 institutions including the Medical College of Georgia.

Degrees Offered

The following degrees and certificates are granted by the College through its schools:

School of Medicine

The Doctor of Medicine degree.

School of Dentistry

The Doctor of Dental Medicine degree.

School of Graduate Studies

The Doctor of Philosophy degree.

The Master of Science degree.

School of Nursing

The Bachelor of Science in Nursing degree.

The Master of Science in Nursing degree.

School of Allied Health Sciences

Dental Hygiene—Bachelor of Science degree.

Medical Illustration—Bachelor of Science degree.

Medical Record Administration—Bachelor of Science degree.

Medical Technology—Bachelor of Science degree.
Occupational Therapy—Bachelor of Science degree.

Physician's Assistants—Bachelor of Science degree.
Physical Therapy—Bachelor of Science degree.

Physical Therapist Assistant—Associate of Science degree.

Radiologic Technologies—Bachelor of Science degree and Associate of Science degree.

Joint Degrees

School of Graduate Studies—School of Medicine

Doctor of Philosophy—Doctor of Medicine degree.

Master of Science—Doctor of Medicine degree.

School of Graduate Studies—School of Dentistry

Master of Science in Oral Biology.

School of Graduate Studies—School of Allied Health Sciences

Medical Illustration—Master of Science degree.

Master of Health Education degree.



Facilities For Instruction

The College campus, situated in the approximate center of Augusta, is convenient to the downtown business district. The locations of the College's various facilities are shown on the campus map.

Research and Education Building

The Sanders Research and Education Building is a modern facility containing classrooms, basic science laboratories, faculty offices, one of the largest electron microscopy laboratories in the country, television services, and similar activities related to the instructional program. The Research and Education Building is the largest instructional building in the University System of Georgia, with 303,424 square feet of floor space. The building is used primarily for research and instruction in the basic medical and dental sciences.

Eugene Talmadge Memorial Hospital

The hospital is an integral part of the Medical College, contributing teaching and clinical research facilities for both faculty and students. It contains approximately 450 beds with supporting x-ray, laboratory, physical medicine, surgery and dietary facilities.

The clinical, teaching and research facilities are utilized for the benefit of students in Medicine, Nursing, Medical Record Administration, Medical Technology, Medical Illustration, Physical Thera-

py, Occupational Therapy, Radiologic Technology, Physician Assistants and in the sciences basic to medicine and dentistry.

The new Sydenstricker addition to the Talmadge Hospital will enlarge the teaching hospital for the Medical College of Georgia to over 600 beds and make it the third largest hospital in Georgia. The present facility has 450,000 sq. ft. and the new wing will add another 300,000. One-third of this will be teaching space (faculty offices, classrooms, study labs and carrels) and the remaining two-thirds for patient care. Many of the concepts of design and equipment will provide for students and patients the most up-to-date environment for care and learning.

Outpatient Clinic Building

This modern three story facility, which is connected by a walkway with Talmadge Hospital, provides space for seven clinic areas, an outpatient pharmacy, and various administrative offices. Located immediately adjacent to the clinic building is an office facility containing fifty faculty offices.

The School of Dentistry Building

This facility is one of the most modern and effectively designed buildings for dental education in the United States. The building contains operatories, laboratories, clinics, classrooms, seminar rooms, and faculty offices geared toward the clinical education of dental students and research in clinical dentistry.



Library

The Library is housed in a two-story building, completed in 1965. Each floor has open stacks and reading areas. There are individual carrels, small-group study rooms and conference rooms.

Approximately 1,600 periodicals and other serials are received annually. The book and journal holdings consist of more than 90,000 volumes.

An audiovisual service and facility are available offering both audiovisual materials and equipment for use by students and faculty, with assistance in their selection and use.

Sophisticated computerized bibliographic search services, including MEDLINE, are offered with a teletype connection to other libraries for quick inter-library loan.

Computational Facilities

Faculty and students have access to a variety of the latest modern computer systems. An IBM 370-135, while primarily for hospital and college information systems, is also used for research and education, and supports instructional systems for student registration, test scoring and grade reporting. Interactive and batch terminals provide access through the University System of Georgia Computer Network to the CDC 6400/IBM 360-65/IBM 370-158 computer complex at the University of Georgia. The School of Medicine operates a Hewlett-Packard 2000F time-sharing system for computer based education. In addition several minicomputers are located in various research laboratories on campus.

The Georgia War Veteran's Home

The GWVH is located adjacent to the main MCG campus and is administered under the auspices of the Medical College. The GWVH is a facility of the Veterans' Service Board of Georgia, a State agency. The Home contains 192 beds for nursing home care with some in-house medical services provided through the Medical College of Georgia.

Other Facilities

Other facilities for classroom, laboratory and/or clinical instruction are the Murphey Building, Dugas Building, and the Educational Building Annex to Talmadge Hospital.

Administrative and service offices can be found in the School of Nursing Building, Faculty Pavilion (administrative offices), the Administration Building (offices for the President, Provost, Dean of Medicine, Business Affairs, Registrar, Undergraduate Admissions and Institutional Relations), the Student Center (Student Affairs offices, Student Government office, Book Store, cafeteria,

snack bar, and recreational facilities), and Residences I, II, IV and V (student residences).

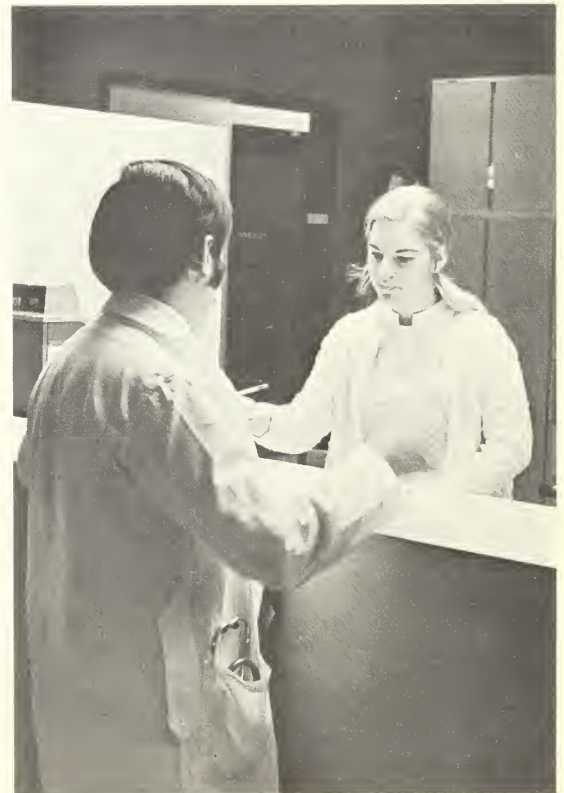
Additional clinics and offices are located in the Marks Building, the Perkins Building, the Endocrinology and Dermatology Building, the Protein Chemistry and Sickle Cell Center, and the Children and Youth Project.

Major Affiliated Institutions

The following hospitals are located in the Augusta area and have affiliation with the Medical College of Georgia:

University Hospital

This is the Richmond County/Augusta hospital with a long tradition of medical education, and is an excellent facility currently being utilized for medical student education in required clerkships and elective courses. As an integral member of the College Affiliated Hospitals Programs, the University Hospital is utilized for house staff training in internal medicine, pediatrics, surgery and obstetrics and gynecology. A nucleus of full time faculty at University Hospital working closely with the private physicians of the community and with the staff of the Eugene Talmadge Memorial Hospi-



tal provides the supervision and teaching of medical students and house staff at University Hospital.

Veterans Administration Hospital

There are two VA hospitals located in Augusta. As integral members of the College Affiliated Hospitals Programs, these VA hospitals serve as excellent facilities for the medical education of students and house staffs. A number of full-time MCG faculty situated at the VA Hospitals supervise patient care and the education of medical students in required clerkships and elective programs.

Gracewood State School and Hospital

The facilities and patients of this state institution are available for clerkships and clinical demonstrations of neurologic, biochemical, and genetic disorders. It is located on the outskirts of Augusta.

Other area hospitals include the new Eisenhower Hospital at Fort Gordon; St. Joseph's Hospital; The Georgia Regional Hospital, and the new Doctor's Hospital.

Admission Requirements

Admission requirements and application procedures, including information pertaining to application forms, physical examinations, personal interviews, and pre-entrance testing, are listed within each school's section of this Catalog.

The College is an equal educational opportunity institution in that no person shall, on the ground of race, color, creed, or national origin, be excluded from participation in, or be otherwise subjected to discrimination in any educational program, activity, or facility.

Transfer Credit

A maximum of 95 academic quarter hours from a junior college, or 145 hours from a senior college or other educational institution may be transferred into an undergraduate program. See the "Scholarship and Promotion" statement under Graduation Requirements.

Courses and credits transferable to an undergraduate curriculum from other colleges or universities must have an over-all grade average acceptable to the College, but in no case less than a 2.00. College credit will not be allowed for remedial courses or other such courses that are basically of secondary school level.

At the discretion of the appropriate Academic Dean, a student transferring into professional curricula from non-collegiate institutions may be

required to have professional course work validated by standardized examinations in order to gain advanced standing and receive college credit for such course work. An application will not be considered from a student who is not in good standing at the institution he has attended previously.

An applicant who wishes to transfer to the College must submit official transcripts of all course work attempted at every institution of higher education at which he has ever enrolled. Such transcripts must be sent by the Registrar at each previously attended institution, and in accordance with instructions sent the applicant with application materials. Transcripts sent by the applicant, or transcripts without an official seal and Registrar's signature, will not be accepted.

The total number of hours that may be earned toward a degree by either extension or correspondence courses, or both, shall not exceed one-fourth of the total credit hours required for a degree. Credit from correspondence courses and/or extension courses are subject to validation to the satisfaction of the Dean of the School concerned.

Any credit which is more than ten years old is subject to validation to the satisfaction of the Dean of the School concerned. Credits from unaccredited institutions are subject to validation to the satisfaction of the Dean of the School concerned.

Transient Students

Students in good standing at other accredited institutions may apply to attend MCG for one quarter in order to complete work to be transferred back to the parent institution, subject to the following stipulations:

1. Before an application can be filed, the applicant must obtain written approval from the School and Department at the Medical College offering the desired course(s), and/or approval of the faculty member(s) teaching the course(s), depending upon the individual school's policy on such matters.
2. Following the obtaining of the above written permission, the applicant must meet all MCG and Board of Regents requirements for transient students.

The policy does not apply to the Schools of Medicine and Dentistry.

General Education Courses For Undergraduate Students

The Medical College of Georgia is a state supported unit of the University System of

Georgia. Augusta College has been designated to assume the responsibility for offering selected courses in general education for all baccalaureate students registered at the Medical College of Georgia. Credits and grades for such courses are accepted by the College directly from this institution as though the courses were taught on the MCG campus. The student must be registered at this institution while taking the courses. Arrangements for the first year of work may be made (with faculty advisement) with other institutions within the University System.

Lower Division general education courses numbered 100 through 399 are offered by Augusta College. These courses will be recorded on transcripts issued by the Medical College with the code designation of "A.C."

Academic Regulations

Units of Credit

The unit of credit is the quarter hour. A quarter hour equals one hour of class work per week for one quarter, or its equivalent in other forms of instruction. Credit given for particular courses is as stated in the course listings of this Catalog, or as defined at the time of registration by the various Schools.

Course Numbering System

The College offers courses numbered 100 to 299 to students in the Lower Division of undergraduate schools, and courses numbered 300 to 499 to students in the Upper Division of undergraduate schools. Graduate courses are numbered from 600 to 999. Certain courses are offered to undergraduate, graduate, and professional students jointly. Such courses are numbered appropriately for each class and degree program.

Courses in the Schools of Medicine and Dentistry, and some School of Nursing courses, are numbered from 500 to 599.

Developmental and remedial courses, which do not carry academic credit, have course numbers of 099 and below.

Classification of Students

The classification under which a student registers at the beginning of each academic quarter will continue throughout the academic quarter.

Undergraduate students are classified as follows:

CLASSIFICATION	HOURS EARNED
Freshman	less than 45
Sophomore	at least 45
Junior	at least 90
Senior	at least 135

Grades

The grading system for the Medical College is as follows:

4.0 = Excellent	WF = Withdrew failing
3.0 = Good	WP = Withdrew passing
2.0 = Average	AU = Audit
1.0 = Poor	CR = Credit
0 = Failure	NC = No credit
I = Incomplete	NR = Not reported

Additional information regarding grades may be found in each School's section of this Catalog.

Grade Changes

Any grade changes due to errors in reporting must be brought to the attention of the Registrar's office within three months of the time reported.

Incomplete grades which have not been made up will be changed to failing grades after one quarter. Requests for exception to this rule must be submitted in writing to the Registrar's office, with signed approval of the instructor and Dean.

Repeated Coursework

By registering for a course for which credit has already been received by transfer or residence work, a student forfeits credit in the previous course. The final grade will be the grade on the repeated course; however, all hours attempted and grades earned will appear on the transcript.

Registration

Registration must be completed on the dates stated in the academic calendar. Registration procedures are the responsibility of the Registrar. Notification of these procedures will be sent to all students at the appropriate time.

Changes in Course Schedules

Changes in a student's schedule of courses following registration can only be made with the approval of the Dean of the School in which the student is enrolled, and the Registrar.

Adding Courses

Additions to a student's course schedule will not be allowed after the deadline for adding

courses set forth in the academic calendar.

Dropping Courses

A course may be dropped without penalty up to the midterm date set forth in the academic calendar. Following this deadline, a student dropping a course will receive either a WP (Withdrew Passing) or a WF (Withdrew Failing). WF grades will be treated as F grades for grade point calculations.

Auditors

Regularly enrolled Medical College students may register for courses as auditors. No academic credit shall be awarded to students enrolled on this basis. After the last day for registration, no changes from an audit basis to credit or from credit to audit will be permitted. Students auditing courses will be required to pay the regular fees for enrollment. (See the "Fees" section of this Catalog.)

Attendance

Regular and punctual attendance is expected of students in all classes, and is counted from the first class meeting each term. Students who incur an excessive number of absences are subject to academic penalty.

Normal Course Load

The normal course load may vary with several degree programs. Students may be required to register for a course load less than the normal course load if this action is determined to be advisable in the light of the student's academic standing or for other reasons. A student who in any quarter registers for less than 12 quarter hours is considered a part-time student; a student who registers for 12 or more hours is considered a full-time student. No student of the School of Graduate Studies, or the undergraduate curricula, may register without special approval from his Dean for more than 21 quarter hours (including audit courses) in any given academic quarter.

Planning the Academic Program

The academic program of each student should be planned in consultation with their academic advisor, major professor, or other person as designated by the Dean of the School concerned.

Withdrawal from the College

A student who wishes to withdraw must report to the Registrar to obtain and complete withdrawal procedures outlined in the Withdrawal Form. The official records of a student who does



not officially withdraw from the institution will not be released until the appropriate withdrawal procedures have been completed.

Non-Continuous Matriculation

Normally a student may be permitted to graduate under academic provisions of the catalog in effect at the time of his first matriculation. A student may choose to graduate under the provisions of a subsequent catalog. A student who returns to one of the undergraduate programs, or to the School of Graduate Studies, after an absence of two or more years will be required to meet the degree provisions of the catalog current on his return, along with such other regulations as may be in effect at the time.

Examinations

A student may be required to perform acceptably on any examination before graduation as deemed appropriate by the academic deans, President, and/or Board of Regents.

Curriculum Changes

The new knowledge continually emerging in the health sciences, changing concepts in the delivery of health care and consideration of certification and licensure requirements may necessitate certain changes in the curriculum of a given school. However, when such changes are anticipated or made after careful review and evaluation, full consideration will have been given to the impact these changes might have on the student's overall academic program during his or her period of matriculation. Consideration will also be given to the impact of any changes on the faculty and the institution as a whole.

General guidelines that will be followed in any curriculum changes include:

- a) Any changes shall not require a student to spend more time (as measured by academic quarters or curriculum phases) in the total curricular program than he or she would have spent under the curriculum in effect at the time of first matriculation.
- b) Any changes shall not require a student to carry an academic overload any quarter or curricular phase in order to graduate in the same time period as in effect at the first matriculation.

These guidelines shall not affect the right of the faculty or administration of a school to require an individual student to spend more time, repeat courses, or take remediation in order to improve academic and clinical deficiencies as necessary to meet minimum standards for graduation.

Policy Changes

Medical College of Georgia policies set forth in this Catalog are subject to change at any time.

Requirements for Graduation

Requirements for Graduate, Medical and Dental Degrees

Requirements for graduate, medical and dental degrees are stated in this Catalog under the listings for the School of Medicine, School of Dentistry, School of Graduate Studies, and the School of Nursing.

Requirements for Associate and Baccalaureate Degrees

Requirements in addition to those listed below for associate and baccalaureate degrees are stated

in this Catalog under the listings for the School of Allied Health Sciences and the School of Nursing.

1. Recommendation by Faculty

It is implicit in the requirements for all degrees conferred by the College that the faculty of each school recommend each candidate for a degree as having met all requirements for the degree to be conferred.

2. Residence Requirements

Every candidate for a baccalaureate or associate degree at the Medical College of Georgia must take a minimum of 45 quarter hours in residence.

3. Total Credit Requirements

A minimum of 180 quarter hours (excluding physical education) is required for a baccalaureate degree, and a minimum of 90 quarter hours (excluding physical education) is required for an associate degree.

4. Regents Testing Program Examination (Rising Junior Test) Requirement

The University System of Georgia requires that each student receiving a degree from a state-supported college must have successfully completed all parts at one administration of a competency examination in reading, writing, and English composition. This examination is a requirement during the academic quarter following the completion of 60 quarter credit hours. The Rising Junior Test of the University System of Georgia is administered at the Medical College once during each quarter. Students will be notified of the dates on which the Rising Junior Test will be administered.

It is the responsibility of each institution of the University System to provide a program of remedial instruction for the student who does not successfully complete the Rising Junior Test. It is the responsibility of each student who does not successfully complete the examination to complete the remedial program prescribed by the college in order to be permitted to retake the examination at a later date.

A student transferring 60 quarter hours from another institution of the University System of Georgia who has not successfully completed the Rising Junior Test will be required to take the examination during his first quarter of attendance at the Medical College of Georgia.

5. Examinations on the History and Constitutions of the United States and Georgia

Examinations on these subjects are required of all baccalaureate and associate degree students unless exempted by presentation of course credit dealing with these constitutions and

histories. A student is advised to meet this requirement early in his academic career.

6. **Scholarship**

An undergraduate degree shall not be conferred on any person whose overall weighted grade point average (for courses in residence) is less than 2.0. Credit hours in courses with the grade of 1.0 shall not exceed 20 percent of the total hours for any degree program. Individual curricula may establish higher standards for achievement, in which case, the higher standards shall apply.

7. **Consultation with Dean or Chairman**

The candidate for an undergraduate degree must consult with the office of the Registrar and the Dean or Chairman of his program concerning completion of requirements for graduation. This consultation should be done three quarters before the expected date of graduation.

Application for Graduation

Application for graduation must be made by each candidate on a form obtainable from the office of the Registrar. The application form should be completed at least two quarters prior to time of graduation. The candidate for a degree from the College must attend the Commencement exercise at which the degree is to be conferred, unless he is officially excused in writing by the Registrar.

Food Services

The College provides a cafeteria and coffee shop in the Student Center and in Talmadge Hospital.

Housing

The Medical College has limited residence hall and apartment accommodations on the campus for single women, single graduate and professional students, and married students. All accommodations are air conditioned. Rent includes all utilities.

Residences I & II (Single Women)

- Single Room \$150.00 per quarter
- Double Room \$110.00 per quarter

Residence IV (Single Graduate, Medical, Dental, and Male Undergraduate Students)

- Double Room \$130.00 per quarter

Residence V (Furnished Married Student Apartments)

- One Bedroom \$110.00 per month
- Two Bedroom \$125.00 per month

Deposits and Refunds

A Security Deposit is required of all students given a housing assignment. This deposit is retained by the College to cover the cost of any damage to rented facilities. The deposit will be refunded less any deductions if the student notifies the housing office of his or her intent to terminate housing 30 days prior to moving. Failure to give at least 30 days notice will cause forfeiture of the Security Deposit. The refund of the Security Deposit and rental fees will be made as soon as possible after terminating housing.

Application Procedures and Information

Students accepted for admission to the College and interested in applying for housing should write the Housing Office, Residence II, Medical College of Georgia, Augusta, Georgia 30902.

Off-Campus Housing

Accepted students interested in housing off-campus should visit the Housing Office (see address under "Application Procedures and Information") for information about housing in the Augusta community.

Fees

Costs of housing, materials, books, deposits, food, uniforms, instruments, and personal expenses are estimated in each School's section of the Catalog.

Full-Time Graduate and Undergraduate Students

The following general fees are payable at the time of registration for all graduate and undergraduate full-time (12 credit hours or more) regularly enrolled students:

	per quarter
Matriculation Fee	\$168.00
Non-resident Fee	
(in addition to Matriculation Fee)	288.00
Student Health Fee	10.00
Student Activities Fee	10.00

Part-Time Graduate and Undergraduate Students

The following general fees are payable at the time of registration for all graduate and undergraduate part-time (less than 12 credit hours) regularly enrolled students:

	per quarter hour
Matriculation Fee	\$ 14.00
Non-resident Fee (in addition to Matriculation Fee)	24.00
Student Health Fee (only if enrolling for 6 hours or more)	10.00
Student Activities Fee (only if enrolling for 6 hours or more)	10.00

Full-Time Medical and Dental Students

The following general fees are payable at the time of registration for all full-time regularly enrolled Medical and Dental students:

	per quarter
Matriculation Fee	\$350.00
Non-resident Fee (in addition to Matriculation Fee)	350.00
Student Health Fee	10.00
Student Activities Fee	10.00

Part-Time Medical and Dental Students

Medical and Dental students enrolled for a part-time course load shall pay fees at the time of registration each quarter in accordance with a fee schedule available in the Registrar’s Office and Comptroller’s Office.

Audit Fees

Fees for auditing a course are the same as the fees for regular enrollment. (See the Academic Regulations section for policy regulating course audits.)

Acceptance Deposits

All Schools of the Medical College of Georgia require a \$50.00 acceptance deposit which will be credited toward first quarter matriculation fees. Those accepted applicants who fail to appear for registration, and fail to notify the appropriate admissions office of their withdrawal in writing not later than the last day of regular registration of their entering class, shall forfeit their acceptance deposit.

Refund of Fees

Students who withdraw from college will receive a refund of matriculation fees at the end of the quarter in which the withdrawal is made. Students who officially withdraw with a clean record within the time specified after the scheduled registration date may receive refunds of matriculation fees as listed:

Time of Withdrawal	Percent Refunded
Not more than one week	80
Not more than two weeks	60
Not more than three weeks	40
Not more than four Weeks	20
More than four weeks	0

Student Health and Student Activity fees will not be refunded when withdrawing. The refund of matriculation fees is limited to withdrawal from the institution and not for dropping of individual courses.

Changes in Fees and Other Charges

All matriculation charges, board, room rent or other charges listed in this catalog are subject to change at the end of any quarter.

Discipline and Appeals

Student discipline at the College is the responsibility of the President and his administrative staff. Students will be expected to act in a manner of credit to themselves and to the institution as outlined in the Student Handbook section on “Student Judiciary Procedures.”

Appeals Procedure

When an applicant for admission shall feel that his application has not been given due consideration or when a student shall be expelled or suspended, the applicant or student shall have the right to appeal in accordance with the following procedure:

He shall appeal in writing to the President of the institution within five days after the action of which he complains. The President shall appoint a committee to review all facts and circumstances and shall within fifteen days make a decision which shall be final so far as the institution is concerned.

Should the aggrieved person be dissatisfied with

this decision, he shall have the right to appeal in writing to the Board of Regents. An appeal to the Board of Regents shall be submitted in writing to the Executive Secretary of the Board within ten days after the President's decision and shall recite all reasons for dissatisfaction with the previous decision. After thorough investigation, the Board shall make its decision within sixty days. The Board's decision shall be final and binding for all purposes.

Financial Assistance for Students

Because the cost of acquiring an education in the health sciences may prevent many students from beginning or completing their studies, the College has developed a program to assist students in financing their education. The College believes that educational opportunities for qualified students should not be controlled by their financial resources, although realistic financial planning is an essential part of college preparation. In selecting students to receive financial assistance the College places primary emphasis on financial need. Academic achievement and promise, and character are also considered.

The College participates in the College Scholarship Service of the College Entrance Examination Board. The College Scholarship Service assists colleges and universities and other agencies in determining the student's need for financial assistance. Unmarried undergraduate students who are currently receiving support from their parents and who are seeking assistance from the College are required to have their parents submit a copy of the Parents' Confidential Statement form to the College Scholarship Service. All other students should instead file the Student Financial Statement with the appropriate office of the College Scholarship Service.

Students desiring more information about financial aid resources should write for the Student Financial Aids Bulletin. This bulletin and an application form on which you may apply for any program that the College administers may be secured by writing the College Financial Aid Office. Information concerning graduate fellowships and assistantships is available from the School of Graduate Studies. Applications for assistance may be submitted to the College prior to official acceptance for enrollment and should be on file by May 1. Later applications will be considered only on a "remaining funds available" basis.

Through funds donated by various individuals and groups the College is able to operate its

student loan program. Among the funds that have been established are the following:

Student Loan Fund, established in 1962 by Dr. James Russell Howell.

Eugene E. Murphey Fund, donated by Mr. Byron B. Taggart in honor of Dr. Murphey.

DeLeon Laboratories Fund, donated in 1955 by Mr. Harold Palmer, president of the pharmaceutical firm.

W. K. Kellogg Foundation, the 1942 and 1943 grants which have evolved into a permanent fund.

Carlin Alexander Fund, sponsored by the Phi Rho Sigma Wives Club in memory of a former member.

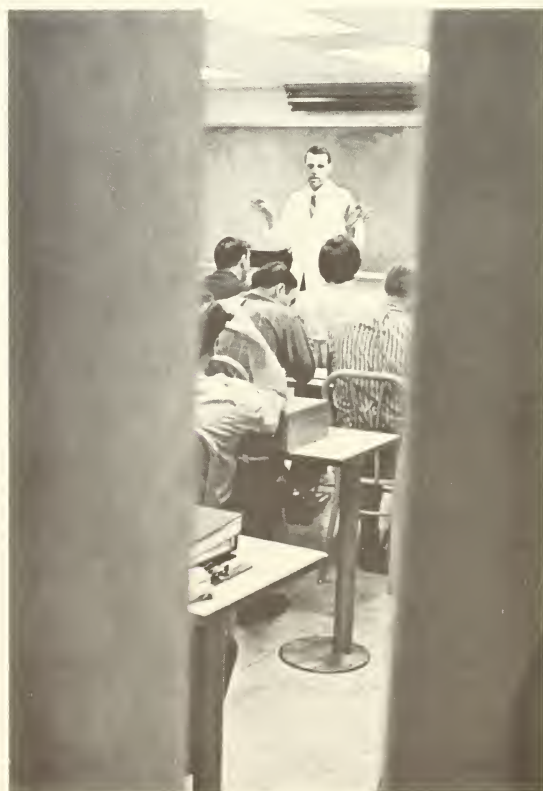
Medical Dames Student Loan Fund, established in 1964 for the benefit of married students.

Virginia N. Dawkins Loan Fund, established in 1970 for the benefit of medical students.

Georgia Pediatrics Society Loan Fund, established in 1959 and funded annually to benefit the loan program.

Robert C. White Memorial Fund, established in 1968 in memory of this student.

Medical College of Georgia Foundation, Inc., provides funds annually for the student aid program.



Student Health Service

Full information on Student Health service is published in a Student Handbook which all students receive upon entrance into the College. The cost of the health service is \$10 per quarter to all students enrolled for six or more credit hours.

Hospitalization and Life Insurance Protection

All full time students of the College may participate in a group hospitalization and life insurance plan. A schedule of benefits and costs is given to each student at the beginning of each year. Current costs, which are subject to change, are as follows:

Schedule of Benefits and Cost

Life and Accidental Death and Dismemberment Insurance:

Life Insurance	\$3,000
Accidental Death and Dismemberment Insurance	\$3,000

Present cost is 57 cents per month or \$2.28 per quarter.

Student Hospitalization Insurance

Details of coverage are available in the Student Handbook and in the Student Plan Health Benefit book.

Present Cost of Coverage:

	Monthly	Quarterly	Annually
Student Only	\$ 7.17	\$ 28.68	\$ 86.04
Student and Dependents	\$ 17.92	\$ 71.68	\$ 215.04

Usually, the quarterly amount shown (1/3 of annual amount) is paid at the beginning of the Fall, Winter and Spring Quarters.

All enrollment forms must be completed and fees paid for insurance to be effective! Insurance continues in effect as long as fees are paid in advance.

Student Responsibilities and Services

The services available to students, as well as the students' responsibilities are outlined in the Student Handbook which is published by the Division of Student Affairs. All students are responsible for knowing its content. Copies are available from the Division of Student Affairs.

Rules Governing the Classification of Students as Residents and Non-residents (Revised July 1, 1974).

- (a) If a person is 18 years of age or older, he or she may register as a resident student only upon a showing that he or she has been a legal resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
(b) No emancipated minor or person 18 years of age or older shall be deemed to have gained or acquired in-state residence status for fee purposes while attending any educational institution in this State, in the absence of a clear demonstration that he or she has in fact established legal residence in this State.
- If a person is under 18 years of age, he or she may register as a resident student only upon a showing that his or her supporting parent or guardian has been a local resident of Georgia for a period of at least twelve months immediately preceding the date of registration.
- A full-time faculty member of the University System and his or her spouse and dependent children may register on the payment of resident fees even though he or she has not been a legal resident of Georgia for the preceding twelve months.
- Non-resident graduate students who hold teaching or research assistantships requiring at least one-third time service may register as students in the institution in which they are employed on payment of resident fees.
- Full-time teachers in the public schools of Georgia and their dependent children may enroll as students in the University System institutions on the payment of resident fees, when such teachers have been legal residents of Georgia for the immediately preceding nine months, were engaged in teaching during such nine month period, and have been employed to teach full time in the public schools of Georgia during the ensuing school year.
- All aliens shall be classified as non-resident students; provided, however, that an alien who is living in this country under a visa permitting permanent residence shall have the same privilege of qualifying for resident status for fee purposes as a citizen of the United States.
- Foreign students who attend institutions of the University System under financial sponsorship of civic or religious groups located in this State, may be enrolled upon the payment of resident fees, provided the number of such foreign

students in any one institution does not exceed the quota approved by the Board of Regents for that institution.

8. If the parents or legal guardian of a minor change his or her legal residence to another state following a period of legal residence in Georgia, the minor may continue to take courses for a period of twelve consecutive months on the payment of resident fees. After the expiration of the twelve month period the student may continue his registration only upon the payment of fees at the non-resident rate.
9. In the event that a legal resident of Georgia is appointed as guardian of a non-resident minor, such minor will not be permitted to register as a resident student until the expiration of one year from the date of court appointment, and then only upon proper showing that such appointment was not made to avoid payment of the non-resident fees.

Illegal use, possession, or distribution of narcotics and/or other dangerous drugs.

The following statement of policy is designed to emphasize, in fairness to all members of the College community, the serious and dangerous consequences resulting from the illegal use, possession or distribution of marijuana, lysergic acid diethylamide (LSD), or other mind-altering drugs, and the unauthorized use of drugs, such as amphetamines, barbituates, and tranquilizers, which are sometimes prescribed for medical purposes.

While there is admittedly much controversy as to whether or not marijuana should be classified as a narcotic or dangerous drug, the fact remains that the possession or transfer (including gifts) of marijuana and LSD is illegal under both federal and state laws and is punishable under either.

It should be especially noted that "any person who, by himself, agent or through any other person, gives, sells, offers for sale, barter, or exchanges with any person any narcotic in violation of the provisions of said Chapter (79A-8, of the Uniform Drug Act) shall be guilty of a felony and upon the first conviction thereof shall be punished by imprisonment in the penitentiary for not less than five nor more than ten years." The penalty for subsequent offenses is a felony punishable by imprisonment for a period of not less than ten and not more than twenty years with possible life sentence at the discretion of the judge.

Agents of the federal and state governments are

engaged in intensive and thorough investigation on a continuing basis throughout the State. The law requires that when a felony is committed the civil authorities shall handle the situation rather than College authorities. Technically the law would say that failure to do so would involve compounding a felony.

Under such circumstances it is clear that the policy of the College must be: "Students involved in civil and criminal offenses will be treated as citizens of the community."

Clearly, the College cannot protect members of its community who commit such offenses. In "Student Freedoms and Responsibilities: A Working Paper," published by the American Association of State Colleges and Universities, it is pointed out that "Students should not expect that university officials will come to their defense for activities committed in violation of civil codes." It ought to be added that this applies to *all* members of the College community.

It should not be inferred from this that the College is indifferent about what happens to members of its community; rather, it has a deep concern for those who may find themselves in violation of the law. It is believed that some may not fully recognize the implications of full accountability and responsibility with regard to drugs, and it is for this reason that this statement is being made.

Cultural and Social Activities

The City of Augusta has a wide variety of cultural and social activities available for students, faculty and staff of the College.

As the "Winter Golf Capital of the World," the city is host each year to the international Masters Golf Tournament.

The vast Clark Hill Reservoir on the Savannah River is located near Augusta. There are exceptional facilities for swimming, camping, fishing, boating, picnicking and other outdoor recreational activities at the reservoir.

The College provides tennis courts, facilities for badminton, volleyball and other outdoor sports. A putting green is located near the Student Center Building. The Student Handbook lists recreational activities available in the Student Center.

The Medical Arts Series of the College is one of the many cultural programs available in the city. Some of the groups active in presenting performing art groups are: Famous Artist Series, Junior Woman's Club; Augusta Symphony Orchestra, Augusta Players, Inc., Augusta Opera Association, Inc., Augusta Music Club, Augusta Museum,



Augusta Community Concert Association, Augusta College Lyceum Series, Augusta Civic Ballet, Inc., Augusta Choral Society, Paine College, American Association of University Women, American Guild of Organists, American Institute of Architects, Augusta Art Association, Historic Augusta, Inc., Augusta Council of Garden Clubs, Inc. and the Fort Gordon Players.

In and near Augusta there are approximately 175 churches representing 35 religious denominations.

The City of Augusta, second oldest in the state, is located near Aiken, South Carolina, where winter polo and other equestrian sports are popular.

Academic Calendars

School of Allied Health Sciences and School of Nursing Calendar

	Academic Year 1975-76	Academic Year 1976-77
Fall Quarter		
Orientation for new students	Sept. 9	Sept. 14
Registration for new students	Sept. 9	Sept. 14
Registration for returning students	Sept. 10	Sept. 15
Exemption examinations given at Augusta College for the U.S. and Georgia History and Constitution	Sept. 12	Sept. 16
Exemption examinations given at the Medical College for U.S. and Georgia History and Constitution	Sept. 13	Sept. 18
Regents Testing Program Examination (Rising Junior Test) given at the Medical College of Georgia	Sept. 13	Sept. 18
Classes begin	Sept. 15	Sept. 20
Last day for late registration and class changes	Sept. 18	Sept. 23
Midterm	Oct. 20	Oct. 25
Preregistration for Winter Quarter	Oct. 20-24	Oct. 25-29
Election Day recess		Nov. 2
Thanksgiving recess	Nov. 26-30	Nov. 24-28
Last day of classes	Nov. 25	Nov. 30
Examinations	Dec. 1-5	Dec. 4, 6-9
Winter Quarter		
Orientation and registration	Jan. 2	Jan. 3
Classes begin	Jan. 5	Jan. 4
Exemption examinations given at Augusta College for U.S. and Georgia History and Constitution	Jan. 5	Jan. 4
Last day for late registration and class changes	Jan. 8	Jan. 6
Exemption examinations given at Medical College for the U.S. and Georgia History and Constitution	Jan. 3	Jan. 8
Regents Testing Program Examination (Rising Junior Test) given at the Medical College of Georgia	Jan. 3	Jan. 8
Midterm	Feb. 6	Feb. 4
Preregistration for Spring Quarter	Feb. 9-13	Feb. 7-11
Last day of classes	March 12	March 11
Examinations	March 13, 15-18	March 12, 14-17
Spring Quarter		
Orientation and registration	March 24	March 22
Classes begin	March 25	March 23
Exemption examinations given at Medical for the U.S. and Georgia History and Constitution	March 27	March 26
Regents Testing Program Examination (Rising Junior Test) given at the Medical College	March 27	March 26
Last day for late registration and class changes	March 29	March 28
Midterm	April 27	March 29
Preregistration for Summer and Fall Quarters	April 26-30	May 2-6
Last day of classes	June 2	May 31
Examinations	June 3-5, 7-8	June 1-4, 6
Registration for Summer Quarter	June 3-4, 7-8	June 1-3, 6
Graduation	June 12	June 11

School of Allied Health Sciences and School of Nursing Calendar (Cont.)

	Academic Year 1975-76	Academic Year 1976-77
Summer Quarter		
Orientation and registration	June 3-4, 7-8	June 1-3, 6
Classes begin	June 21	June 20
Last day for late registration and class changes	June 23	June 22
Exemption examinations given at the Medical College for the U.S. and Georgia History and Constitution	June 26	June 25
Regents Testing Program Examination (Rising Junior Test) given at the Medical College	June 26	June 25
Independence Day holiday		July 4
Midterm	July 16	July 15
Preregistration for Fall Quarter	July 12-16	July 11-15
Last day of classes	Aug. 13	Aug. 15
Examinations	Aug. 14, 16-19	Aug. 16-19
Graduation	Sept. 25	Sept. 24

School of Dentistry Calendar

	Academic Year 1975-76	Academic Year 1976-77
Fall Quarter		
Registration and Orientation—First Quarter	Sept 3-5, 1975	Sept. 8-10, 1976
Orientation —Pre-Session)	Sept. 7-26, 1975	Sept. 13-Oct. 1, 1976
Classes begin	Oct. 6, 1975	Oct. 4, 1976
Thanksgiving recess	Nov. 27-28, 1975	Nov. 25-26, 1976
Christmas recess	Dec. 19, 1975	Dec. 17, 1976
Winter Quarter		
Classes begin	Jan. 5, 1976	Jan. 3, 1977
Classes end	March 19, 1976	March 18, 1977
Spring Quarter		
Classes begin	March 22, 1976	March 21, 1977
Spring recess	April 5-9, 1976	April 4-8, 1977
Classes end	June 11, 1976	June 10, 1977
Enrichment period	June 14-July 2, 1976	June 13-July 1, 1977
Summer recess	July 5-July 30, 1976	July 4-July 29, 1977
Summer Quarter		
Classes begin	Aug. 2, 1976	Aug. 1, 1977
Labor Day	Sept. 6, 1976	Sept. 5, 1977
Classes end	Sept. 24, 1976	Sept. 23, 1977
Graduation	Sept. 25, 1976	Sept. 24, 1977

School of Graduate Studies Calendar

	Academic Year 1975-76	Academic Year 1976-77
Fall Quarter		
Advisement and registration	Sept. 3-5	Sept. 8-10
Classes begin	Sept. 8	Sept. 13
Last day for late registration and class changes	Sept. 18	Sept. 23
Midterm	Oct. 20	Oct. 25
Preregistration for Winter Quarter	Oct. 20-24	Oct. 25-29
Election Day recess		Nov. 2
Thanksgiving recess	Nov. 27-30	Nov. 25-28
Examinations	Dec. 8-13	Dec. 13-17
Winter Quarter		
Registration	Jan. 2, 5	Jan. 3
Classes begin	Jan. 5	Jan. 3
Last day for late registration and class changes	Jan. 8	Jan. 6
Midterm	Feb. 6	Feb. 4
Preregistration for Spring Quarter	Feb. 9-13	Feb. 7-11
Examinations	March 8-12	March 7-11
Spring Quarter		
Registration	March 15	March 14
Classes begin	March 15	March 14
Last day for late registration and class changes	March 19	March 19
Spring recess	April 3-11	April 2-10
Classes resume	April 12	April 11
Midterm	April 26	April 29
Preregistration for Summer Quarter	April 26-30	May 2-6
Dissertation/thesis approval form due in Dean's office	April 26	April 25
Examinations	May 30-June 4	June 1-4, 6
Registration for Summer Quarter	June 3-4, 7-8	June 1-3, 6
Graduation	June 12	June 11
Summer Quarter		
Registration	June 3-4, 7-8	June 1-3, 6
Classes begin	June 14	June 13
Last day for late registration and class changes	June 23	June 22
Independence Day holiday		July 4
Midterm	July 16	July 15
Preregistration for Fall Quarter	July 12-16	July 11-15
Examinations	Aug. 14, 16-19	August 8-12
Graduation	Sept. 25	Sept. 24

School of Medicine Calendar

	Academic Year 1975-76	Academic Year 1976-77
Phase I		
First Quarter (14 Weeks)		
Orientation and registration	Sept. 3-5, 1975	Sept. 8-10, 1976
Classes begin	Sept. 8, 1975	Sept. 13, 1976
Thanksgiving recess	Nov. 27-30, 1975	Nov. 25-28, 1976
Classes end	Dec. 12, 1975	Dec. 17, 1976
Christmas vacation	Dec. 13, 1975- Jan. 4, 1976	Dec. 18, 1976- Jan. 2, 1977
Second Quarter (10 Weeks)		
Classes begin	Jan. 5, 1976	Jan. 3, 1977
Classes end	March 12, 1976	March 11, 1977
Third Quarter (11 Weeks)		
Classes begin	March 15, 1976	March 14, 1977
Spring vacation	April 3-11, 1976	April 2-10, 1977
Classes resume	April 12, 1976	April 11, 1977
Classes end	June 4, 1976	June 3, 1977
Phase II		
First Quarter (15 Weeks)		
Classes begin	Sept. 2, 1975	Sept. 7, 1976
Thanksgiving vacation	Nov. 27-30, 1975	Nov. 25-28, 1976
Classes end	Dec. 12, 1975	Dec. 17, 1976
Christmas vacation	Dec. 13, 1975- Jan. 4, 1976	Dec. 18, 1976- Jan. 2, 1977
Second Quarter (10 Weeks)		
Classes begin	Jan. 5, 1976	Jan. 3, 1977
Classes end	March 12, 1976	March 11, 1977
Third Quarter (10 Weeks)		
Classes begin	March 15, 1976	March 14, 1977
Spring vacation	April 3-11, 1976	April 2-10, 1977
Classes resume	April 12, 1976	April 11, 1977
Classes end	May 28, 1976	May 27, 1977
Phase III		
	The year is divided into rotations consisting of four, six, eight, and twelve week periods beginning June 16, 1975 and ending May 9, 1976. Vacations, as a rule, are the same as for Phase I and Phase II except for certain designated electives.	The year is divided into rotations consisting of four, six, eight and twelve week periods beginning June 14, 1976 and ending May 8, 1977. Vacations, as a rule, are the same as for Phase I and Phase II except for certain designated electives.
Part I National Board Examination	June 10-11, 1975 Sept. 3-4, 1975	Dates to be announced
Part II National Board Examination	April 8-9, 1975 Sept. 23-24, 1975	Dates to be announced

Dean—Dr. Raymond C. Bard

Dental Hygiene—Dr. Billy Pollard, Chairman

Medical Illustration—Dr. Paul J. Brucker, Chairman

Medical Records Administration—Miss Juanita Sirmans, Chairman

Medical Technology—Dr. Armand Glassman, Chairman

Physical Therapy—Dr. Bella May, Chairman

Radiologic Technology—Mr. Cecil Hall, Chairman

Occupational Therapy—Mrs. Nancy Prendergast, Chairman

Physician's Assistants—Dr. John Palmer, Chairman

School of Allied Health



School of Allied Health Sciences

The School of Allied Health Sciences at the Medical College was established as an administrative entity in 1968. Prior to this date, programs in Medical Illustration, Medical Record Administration, Medical Technology and Radiologic Technologies has been active; in 1967, the Dental Hygiene program was initiated. Since then, four additional programs, Physical Therapy, Occupational Therapy, Physician's Assistants, and Nuclear Medicine Technology, have been added to the School. The School is organized into departments, providing programs for each of the allied health professions leading to the baccalaureate degree. In addition, the Associate in Science degree is awarded in Radiologic Technologies.

Information pertaining to application, admission, fees and expenses, loans and scholarships can be found in each department's section of this book or in the General Information section of the Catalog.

Application Procedure

Application forms with instructions for completing the admission procedure may be obtained from the Office of Admissions, School of Allied Health Sciences, School of Nursing. Applications for each entering class should be filed no later than April 15.

Early application is recommended. No application fee is required.

Admission Criteria

Preference will be given the applicant who has demonstrated superior academic ability. The applicant must present evidence of graduation from an accredited high school or its equivalent. Preference will be given the applicant to undergraduate programs who has emphasized high school subjects in the sciences (mathematics, chemistry, physics, biology, zoology) and the liberal arts. The entering freshman must present credentials to indicate completion of the following high school credits from an accredited high school.

	Units
English	4
Mathematics (must include one unit of algebra)	2
Science (general biology, chemistry, physics)	2

	Units
Social studies (one unit of American history)	4
Other academic units	2
Unrestricted electives	2

High school level test of General Education Development will be accepted.

Scholastic Eligibility Standards

An undergraduate student who is making satisfactory progress toward a degree will maintain a minimum of:

Grade Point Ratio	Total Hours attempted
1.3	45
1.6	90
1.8	135
2.0	180—above

Suspension

A student who falls below this standard at the end of any regular academic year will be suspended for the next regular quarter, unless he attends an approved summer school and shows marked improvement. Any full-time student who fails to make a passing grade in at least one of his academic subjects may be suspended at the end of any quarter.

Probation

A student who falls below a "C" average in any given quarter or whose cumulative average is below a "C" will be carried on probation and his records marked accordingly.

Dental Hygiene

In cooperation with the School of Dentistry, this department offers a program of studies leading to the Bachelor of Science degree in Dental Hygiene. Upon satisfactory completion of the Dental Hygiene Program, graduates will be eligible for National and State Board Examinations.

Objectives

The dental hygienist educates patients in effective personal care of the oral cavity and provides, under the supervision of a dentist, oral health care. The opportunity to serve both in the area of education and in the area of direct service affords a unique and satisfying career. The demand for competent faculty in the growing list of dental hygiene programs is opening a major new avenue for self-expression and fulfillment to many talented persons.

Dental hygiene provides a variety of opportunities for career development. The majority of dental hygienists are found in private practice in a dental office or in a group practice environment. An increasing number are serving as members of public health teams at local, state, and national levels. New opportunities in the field of education will be available in both the public schools and the dental hygiene schools. Unlike many other professions, dental hygiene offers the opportunity for either a full-time or a part-time career.

In any of these roles, the dental hygienist performs an important meaningful service to her community. She is a respected member of society and her financial status compares favorably with those of persons in other health fields who have had comparable education.

Accreditation

The Department of Dental Hygiene is fully accredited by the Council on Dental Education of the American Dental Association.

Admission Requirements

Two years of study at an accredited college of the student's choice precedes admission to the educational program in Dental Hygiene at the Medical College of Georgia. A balanced program of studies in the Liberal Arts and Sciences is preferred. In addition to the requirements listed in the general information section, the following represents the minimum prerequisites to the program. Preference will be given to those applicants who have demonstrated satisfactory academic ability, especially in scientific subjects.

Area I—Humanities
Quarter Hours Required: 20

	Qtr. Hrs.
English 101 (Composition)	5
English 102 (Literature)	5
Speech	5
Electives	5
Total	20

SUGGESTED ELECTIVE COURSES:
English, Foreign Language, Advanced Speech, Humanities, The Arts.

Area II—Science
Quarter Hours Required: 20

	Qtr. Hrs.
Math	5
General Chemistry	5
Biology with Lab in Sequence	10
Total	20

Area III—Social Science
Quarter Hours Required: 20

	Qtr. Hrs.
Sociology	5
*Political Science	5
*History	5
Elective	5
Total	20

*These courses must satisfy the Georgia Legislative requirements. Exemption examinations may be taken by both in and out-of-state students to satisfy these requirements.

SUGGESTED ELECTIVES:
Psychology, Sociology, Anthropology, Philosophy, Religion, Communication Theory, Economics and History.

Area IV—Major Area
Quarter Hours Required: 30

Electives 30 Hours.
The major area affords the student opportunity to pursue areas of interest, however courses supportive to the Dental Hygiene major should be

included, such as additional Chemistry and Biology, Journalism, Nutrition, Community Health Education, Communications Theory, Drama, Education, Psychology, and Ceramic Sculpture.

The total number of credit hours necessary for entrance into the Dental Hygiene program is 90 quarter hours or 60 semester hours.

A personal interview is required of each candidate, appointment for the interview is given upon receipt of the completed application materials by the office of Undergraduate Admissions.

Notice:

The high school curriculum described in the Allied Health Sciences introduction section is recommended, but not required for Dental Hygiene admission.

Estimated Additional Expenses Specific to Dental Hygiene*

	First Year	Second Year
Books and Supplies	120.00	120.00
Field Trips	—	50.00
Instruments	225.00	50.00
Uniforms	210.00	—
Total	550.00	220.00

*Matriculation and other fees are stated in the General Information Section of this Catalog.

Curriculum

Junior Year

Fall Quarter		Credit Hours
Dh 300	Pre-Clinical Dental Hygiene	3
Bio 301	Biochemistry	5
Dh 312	Oral Anatomy & Dental Terminology	2
Anm 320	Anatomy & Physiology	5
Dh 320	Introduction to Patient Care	2
Psy 358	Human Behavior	3
	Total	20

Winter Quarter

Dh 301	Dental Hygiene Clinic	3
Dh 314	Dental Radiology	2
Dh 321	Introduction to Patient Care	2
Mir 300	Microbiology	4
Dh 318	Growth and Development	1
Anm 321	Anatomy and Physiology	5
	Total	20

Spring Quarter		Credit Hours
Anm 325	Head and Neck Anatomy	5
Dh 302	Clinical Dental Hygiene	3
Dh 322	Introduction to Patient Care	2
Dh 404	Periodontics	2
Dh 315	Dental Radiology (Lab)	2
Mib 302	Microbiology	3
Ph 413	Nutrition and Preventive Dentistry	1
	Total	20

Years Total Credit Hours 55

Senior Year

Fall Quarter		Credit Hours
Omd 400	Oral Medicine	2
Phm 311	Pharmacology	4
Dh 400	Dental Hygiene Clinic	4
Dh 407	Educational Media	2
Dh 408	Preventive Dentistry & Nutrition	3
Dh 412	Public Health (Intro. to)	2
	Total	17

Winter Quarter

Dps 300	Dental Materials	1
Dh 424	Dental Assisting	1
Dh 425	Extra Mural Clinics	1
Dh 401	Dental Hygiene Clinic	4
Dh 406	Pathology	4
Dh 411	Public Health Field Experience	3
Dh 419	Seminar	1
Dh 427	Practice Management	2
	Total	17

Spring Quarter

Dh 402	Clinical Dental Hygiene	6
Dh 415	Career Options in Dental Hygiene	12
Tract 1	Dental Hygiene Education	
Tract 2	Clinical Dental Hygiene	
Tract 3	Public Health and Community Dental Hygiene	
	Total	18

Years Total Credit Hours 52

Medical Illustration

It is anticipated that one or more undergraduate programs will be developed in Biocommunication, such as Biomedical Photography, Biomedical Graphic Technology or Communication Media Technology. Descriptions of such programs will appear in future bulletins.

Information on the program in Medical Illus-

tration can be found in the School of Graduate Studies section.

Medical Record Administration

This department offers a program of studies leading to the Bachelor of Science degree in Medical Record Administration. This program was approved in 1962 by the Board of Regents of the University System of Georgia. Students are accepted after completion of two years of college. The curriculum of the last two years utilizes the facilities of Augusta College and the Medical College of Georgia. Professional educational activities are provided in the teaching hospital of the College, Eugene Talmadge Memorial Hospital, and other institutions in the city of Augusta, and hospitals in other cities in Georgia and adjoining states. Student enrollment is limited.

The program of the junior and senior years includes liberal arts courses, study and experience in medical record administration, statistics, fundamentals of medical science, law as related to medical records and hospitals in general, medical information handling, organization and administration and systems of processing data in medical care institutions.

Objectives

A medical record administrator is responsible for the development and maintenance of a system of health records which will promote the best medical care for the patient, provide training materials for interns and residents, and serve as a source of information for medical research and clinical evaluation.

Most medical record administrators are employed in hospitals. Others work in clinics, medical research centers, medical departments of insurance companies, health agencies and local and state health departments.

The demand for qualified personnel is great and the number of unfilled positions is increasing largely due to the increase in the number of hospitals and the complexity of health care delivery.

As a member of the health care team the medical record administrator works with the administrative, medical, and other professional staffs of the institution; he is concerned with the development, analysis, maintenance and use of records and reports.

The Department of Medical Record Administration of the Medical College of Georgia has as its

goal the education of mature persons who are capable of utilizing the vast resources of the institution to acquire knowledge and attain professional status. The student is encouraged to set his own goals and, through faculty leadership, develop to his fullest potential. It is expected that graduates will be equipped to become productive and contributory members of the profession and the institution in which they are employed and capable of accepting the responsibilities of management and service required of them. It is hoped that graduates will acquire advanced degrees and become teachers and leaders in this challenging field of health science.

Accreditation

The Department of Medical Record Administration is approved by the Council on Medical Education of the American Medical Association and by the American Medical Record Association.

Graduates are eligible for registration examination of the American Medical Record Association, successful completion of which entitles them to use the title "Registered Record Administrator" (RRA).

Admission Requirements

The applicant may attend any accredited college or university of his choice for the freshman and sophomore years; however, admission and academic requirements of the Medical College of Georgia must be met. Preference will be given to those applicants who have demonstrated superior ability in all academic areas. The History and Constitution and RTPE requirements for graduation as listed in the MCG general section are the responsibility of the student and should be met prior to admission.

Accepted students transfer to the Medical College program in Medical Record Administration at the beginning of the third year. Admission requirements, in addition to those listed in the General Information section, includes a curriculum for the freshman and sophomore years which shows a minimum of 90 quarter hours (exclusive of Physical Education) of acceptable work as follows:

Humanities	Credit Hours
*Composition	5
*Literature	5
Electives	10
(Composition, Literature, or Humanities)	
Total	20

Natural Sciences	Credit Hours
*Mathematics (To include college Algebra)	5
*Two-Course sequence in Biology (with Lab)	10
Chemistry (with Lab)	5
Science elective (with or without Lab)	5
Total	25
Social Sciences	
*History (U.S. History Recommended)	5
*Government-Political Science Electives (Choose from Philosophy, Psychology, Sociology, Economics)	5 15
Total	25
Electives	
Secretarial Science or Business Administration (To include business correspondence and report writing)	5
Other Electives (Speech, Art or Music Appreciation, History, Religion, Language, or other of choice)	15
Total	20

*Satisfies specific core curriculum requirements of the University System of Georgia.

It is recommended that the student NOT take courses in Anatomy and Physiology since they are a part of the professional curriculum.

Typing credit or proficiency must be demonstrated.

All admission prerequisite courses must be completed prior to registration in the Fall Quarter of the senior year.

The faculty of the Department of Medical Record Administration is prepared to assist prospective students in planning courses for the first two years of college.

Estimated Additional Expenses Specific to Medical Record Administration

	First Year	Second Year
Books and Supplies	150.00	125.00
Uniforms	100.00	—
Total	250.00	125.00

Current information about fees and expenses will be supplied with application materials. Matriculation and other fees are stated in the General Information section of this Catalog.

Special Fees and Expenses

The student should make provision for living expenses for one month while on assignment to hospitals outside the city of Augusta. Students are encouraged to attend professional meetings for which they will bear the expense of travel, room and board, and registration fee. Such meetings do not usually last more than two days.

Application Procedure

Application materials may be secured from the Office of Admissions, School of Allied Health Sciences. No application fee is required.

Early application is recommended and applications for the September class should be filed at least by April of that year, and transcripts should be submitted as work is completed.

A personal interview on the MCG campus with faculty members is required and must be scheduled by the applicant. Early scheduling of interviews is recommended.

Completed applications will be reviewed and applicants notified of the final action on their applications by June 1.

Financial Assistance

The American Medical Record Association has limited funds for loans to senior students in this program. Information may be secured from the office of the Chairman of the Department of Medical Record Administration. For information on other funds available, see the General Information section.

Curriculum

At the beginning of the third year of college the student enters the program at the Medical College of Georgia. Courses in the professional program are offered on this campus and at Augusta College. Organized courses are described below. Directed experiences are planned in several hospitals, principally at Eugene Talmadge Memorial Hospital, the teaching hospital for the Medical College of Georgia. Only grades of "C" or above are acceptable in professional courses.

Junior Year

Fall Quarter		Credit Hours
Ahs 300b	Health Care Environment	2
Anm 320	Anatomy & Physiology I	5
Hs 310	Introduction to Management	3
Mra 301	Medical Terminology I	3
Mra 310	Theory of Medical Record Science I	4
Total		17

Winter Quarter

Anm 321	Anatomy & Physiology II	5
Mra 302	Medical Terminology II	3
Mra 320	Organization & Administration I	2
Mra 340	Directed Experience I	2
	Elective	5
Total		18

Spring Quarter

Hs 440	Introduction to Data Processing Systems	3
Mra 311	Theory of Medical Record Science II	6
Mra 341	Directed Experience II	4
Mra 401	Fundamentals of Medical Science I	5
Total		18

Years Total Credit Hours 53

Senior Year

Fall Quarter		
Hs 450	Elementary Medical Statistics	3
Mra 402	Fundamentals of Medical Science II	5
Mra 410	Theory of Medical Record Science III	5
Mra 420	Organization & Administration II	3
Mra 440	Directed Experience III	2
Total		18

Winter Quarter

Hs 420	Systems Analysis in Health Systems Management	3
Mra 411	Theory of Medical Record Science IV	5
Mra 421	Organization & Administration III	5
Mra 422	Legal Concepts for the Health Fields	3
Total		16

Spring Quarter

Mra 425	Seminar	3
Mra 430	Data Processing Systems I	3
Mra 441	Directed Experience IV	12
Total		18

Years Total Credit Hours 52

Medical Technology

Medical Technology is an established allied health profession assisting patient diagnosis and treatment through laboratory application through laboratory application of biological, immunologic and chemical principles. The curriculum is designed to take advantage of rapid advancement in the art and science of medical technology.

Objectives

A primary goal of our program is to encourage a graduated academic experience so that the student can gain increasing confidence and competence in the variety of subjects which will have to be mastered in order to engender the best in patient care. Continued revision of the curriculum will permit an opportunity for emphasis in specific areas of student interest in an adaptive way for the future.

Opportunities

Although most medical technologists are found working in general hospital laboratories, technologists are also employed in industrial laboratories, medical research program, pharmaceutical laboratories, armed forces, Peace Corps, and other volunteer agencies as well as private physicians' offices or clinics. In addition, an ever increasing number of technologists are needed to serve as professional educators in approved schools of medical technology.

Accreditation

The Medical Technology program is approved by the Council on Medical Education of the American Association in collaboration with the Commissioner of Medical Technology and with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

Graduates are eligible for examination by the Board of Registry for Medical Technologists of the American Society of Clinical Pathologists.

Estimated Additional Expenses Specific to Medical Technology

	First Year	Second Year
* Books and Supplies	225.00	295.00
** Uniforms	—	110.00
Total	225.00	405.00

- *Matriculation and other fees are stated in the General Information Section of this Catalog.
- **During Clinical Practicum—Senior Year—female students are required to wear white uniforms and shoes; male students are required to wear shirts with tie, trousers and short white lab coats.

Application Procedures

Application forms with instructions for completing the admission procedure may be obtained from the Office of Admissions, School of Allied Health Sciences, School of Nursing. Applications for the entering September class should be filed no later than April 15. Early application is recommended. No application fee is required. Applications completed after this time will be considered on an individual basis.

Students may begin their senior years in either the summer or fall quarter. When notified of acceptance, the applicant is requested to accept or decline the appointment in writing to the Department of Medical Technology. The Department should be notified no later than six weeks prior to the intended admission date.

Requirements for Admission

Admission and academic requirements of the Medical College of Georgia must be met. Applicants may attend any accredited college or university of their choice for the freshman and sophomore years. Accepted students transfer to the Medical College of Georgia program in Medical Technology at the beginning of their third year. Preference will be given to those applicants who have demonstrated superior ability in all academic areas. A personal interview is required of all applicants. Admission requirements, in addition to those listed in the General Information Section, include a curriculum for the freshman and sophomore years which contains a minimum of 90 quarter hours (exclusive of Physical Education) of acceptable work. All applicants must satisfy the U.S. and Georgia History and Constitution requirements by examination or academic courses. It is the responsibility of each student to make arrange-

ments for these courses or to complete satisfactorily an examination on the subjects. These arrangements should be made prior to enrollment at the Medical College of Georgia.

Curriculum

At the beginning of the third year of college the student enters the program at the Medical College of Georgia. Courses in the professional program are offered on this campus and at Augusta College. Clinical experiences are planned at the Eugene Talmadge Memorial Hospital and the University Hospital, Augusta, Georgia.

Years Total Credit Hours

All students must satisfy the three year requirements of the Registry of Medical Technologists of the American Society of Clinical Pathologists before admission to senior standing. These requirements include a minimum of 24 quarter hours of Chemistry and 24 quarter hours of Biology.

Scholarship and Promotion

Promotion of student from one year to the next is dependent upon the satisfactory completion of each year's work. Promotions are considered on the basis of recommendations by individual instructors, on departmental evaluations, and on the student's total record.

The faculty has the obligation and right to determine the methods of evaluation, and to evaluate each student individually in compliance with applicable Medical College of Georgia and departmental guidelines. Comprehensive examinations will be scheduled at the end of the fourth year for review and self education.

Core requirements for admission to the junior year include:

Area I—Humanities	Credit Hours
English	10
Electives (English, Speech, Humanities, Foreign Language)	10
Total	20
Area II—Natural Sciences	
Math	10
Chemistry: General Inorganic	10
Total	20

Area III—Social Sciences		Credit Hours
*Political Science		5
*American History		5
Free Electives		10
	Total	20
Area IV—Major Area		
Physics		5
Chemistry: Qualitative Analysis; Organic		10
Biology w/Lab		15
	Total	30
Years Total Credit Hours		90

*The state of Georgia requires that any student who receives a degree from one of their institutes of higher education will have demonstrated a proficiency in United States and Georgia Constitution and History. A student is advised to meet this requirement early in his academic years by taking courses in Political Science and American History.

Junior Year

Mtc 362	Instrumentation	5
Mtc 363	Urinalysis	3
Mib 310	Introductory Microbiology	5
Mtc 371	Medical Mycology and Parasitology	5
Mtc 375	Basic Immunology	3
Mtc 381	Fundamentals of Clinical Hematology	6
Anm 320-321	Anatomy and Physiology	10
Cmb 345	Biochemistry	5
Ahs 300A or B	The Health Care Environment	3
Mtc 364	Laboratory Mathematics and Statistics	3
Mtc 370	Microbiology Lab	1
Mtc 365	Biochemistry Lab	1
Mtc 391	Techniques of Management and Education	3
Mtc 305	Laboratory Medicine Case Presentation	1
Mtc 306	Laboratory Medicine Seminar	1
Mtc 394	Directed Individual Study	(TBA)
Mtc 395	Directed Individual Study—Blood Bank	(TBA)
Mtc 396	Directed Individual Study—Chemistry	(TBA)
Mtc 397	Directed Individual Study—Hematology	(TBA)
Mtc 398	Directed Individual Study—Microbiology	(TBA)
Mtc 399	Directed Individual Study—Instrumentation	(TBA)

Senior Year		Credit Hours
Mtc 440	Clinical Chemistry	10
Mtc 442	Clinical Practicum Chemistry	10
Mtc 448	Microbiology	14
Mtc 449	Clinical Practicum Microbiology	10
Mtc 472	Immunohematology Related to Transfusion Services	9
Mtc 473	Clinical Practicum Blood Bank	10
Mtc 474	Diagnostic Immunology	4
Mtc 481	Clinical Hematology	9
Mtc 482	Clinical Practicum Hematology	10
Mtc 493	Medical Technology Seminar	1
Mtc 494	Directed Individual Study	(TBA)
Mtc 495	Directed Individual Study—Blood Bank	(TBA)
Mtc 496	Directed Individual Study—Chemistry	(TBA)
Mtc 497	Directed Individual Study—Hematology	(TBA)
Mtc 498	Directed Individual Study—Microbiology	(TBA)
Mtc 499	Directed Individual Study—Instrumentation	(TBA)
Mtc 460	Advanced Instrumentation	7

Masters of Health Education

The Department of Medical Technology provides an educational program offering courses at the graduate level to prepare participants for careers in more highly skilled clinical practice, teaching, and administration. Upon completion of requirements candidates are awarded the degree Master of Health Education.

For details refer to School of Graduate Studies section of this Catalog.

Occupational Therapy

Objectives

Occupational therapy is a health profession which contributes to the physical and emotional independence and well-being of an individual through the use of selected activities. The focus of occupational therapy is meaningful involvement in problem-solving tasks and productive performance to promote and maintain health, evaluate behavior, diminish dysfunction and pathology, and enhance the capacity to function with satisfaction to self and others.

The frame of reference of occupational therapy is derived from the biological and behavioral sciences with particular emphasis on those aspects related to man’s acquisition and integration of behavior necessary for self-care, productivity and social development.

The functions of occupational therapists are to:

A. Serve the individual client or patient by:

- 1. Assessing his performance capacities and deficits.
 - 2. Selecting tasks or activity experiences appropriate to his defined needs and goals.
 - 3. Facilitating and influencing his participation and investment.
 - 4. Evaluating his response, assessing and measuring change and development.
 - 5. Validating assessments, sharing findings and making appropriate recommendations.
- B. Provide consultative services in relation to the profession and its functions.
- C. Provide administrative and supervisory leadership for occupational therapy programs.
- D. Facilitate and participate in community health care planning and activities.
- E. Promote, plan, implement and conduct research for the benefit of the public and the growth of the profession.

Upon referral from qualified physicians and others in the broader health care community, the registered occupational therapist may focus on one or more of the following:

Prevention and Health Maintenance, which has as its purpose the fostering of normal development, sustaining and protecting existing functions and abilities, preventing disability and/or supporting levels or restoration or change.

Remediation, which focuses on the reduction of pathology or specific disability, providing task and activity experiences which may diminish the particular impairment, restore or develop the individual’s capacity to function.

Daily Life Tasks and Vocational Adjustment, which are primarily concerned with work adaptation and work role adjustment and where the tasks chosen are those which will promote and teach independent functioning, develop and enhance the ability to work and/or fulfill age-specific life tasks and roles.

Opportunities

The registered occupational therapist works in neighborhood health centers, special schools, public health and other community agencies, nursing homes, general and special hospitals,

clinics and rehabilitation centers as well as in private practice and in colleges and universities.

There is an acute shortage of registered occupational therapists. Thousands of positions at all levels are waiting to be filled and new positions are being created.

**Estimated Additional Expenses*
Specific to Occupational Therapy**

	First Year	Second Year
Books and Supplies	250.00	175.00
Uniforms	75.00	---
Field Trips and Travel	85.00	350.00
Total	410.00	525.00

*Matriculation and other fees are stated in the General Information Section of this Catalog.

Special Needs

Students who are accepted into the program must be prepared to travel to facilities throughout the Southeast United States to complete the full-time field work requirements in the senior year of study. Some travel may also be required to facilities in Georgia and South Carolina during the junior year. Financial assistance for these additional expenses cannot be guaranteed although every effort will be made to assist students with major financial problems.

Admission Requirements

Applicants may attend any accredited college or university of his choice for the freshman and sophomore years; however, all requirements of the Medical College of Georgia must be met.

The following subjects or subject areas are to be included in the students pre-professional course work:

Humanities	Credit Hours
Grammar and Composition	5
Literature	5
Electives	10
Total	20

Natural Sciences

Biology (with Lab)	10
General Chemistry (with Lab)	5
Physics/Physical Sciences	5
Mathematics	5
Total	25

Social Sciences	Credit Hours
History	5
Political Science	5
General Psychology	5
Abnormal Psychology	5
Sociology	10
Total	30

Electives

It is suggested that some electives be taken in fine and applied arts; manual arts; and/or home economics.

Total	15
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Prior to graduation students must satisfy the Georgia Legislative requirements for U.S. and Georgia History and Constitution by course work or examination.

Interested applicants should contact the Medical College of Georgia, School of Allied Health Sciences, Department of Occupational Therapy as early in their academic program as possible.

Application Procedure

Application forms with instructions for completing the admission procedure may be obtained from the Office of Admissions, School of Allied Health Sciences, School of Nursing.

Early application is recommended. No application fee is required.

1. It is best to complete all application requirements by April 15 of the year in which one is applying for admission in September. Applications completed after this time will be considered on a space available basis.
2. Have a personal interview with the department admissions committee prior to April of the year one is applying for fall admission.
3. Have completed at least 90 quarter hours (60 semester hours) exclusive of physical education with a minimum grade point average (on a 4.0 system) of C (2.0) overall and C + (2.5) in the sciences.

Financial Aid

In addition to the sources of financial aid available to all College students, there are some sources available specifically for students enrolled in an occupational therapy curriculum. For information on these sources contact: Chairman, Department of Occupational Therapy, Medical College of Georgia.

Curriculum

The curriculum in Occupational Therapy at the Medical College of Georgia is accredited by the American Occupational Therapy Association and the Council on Medical Education of the American Medical Association.

The occupational therapy curriculum is designed as a continuum of learning experiences so organized as to facilitate the personal and professional growth of the student. While the main objective of the program is to prepare the student to function as a clinician, because of the nature of the profession he must be exposed to concepts of education, research and management.

The curriculum has three major components: human biology, the developmental process and interruptions to the process, and alternatives to dysfunction.

The human biology component serves as the basic structure from which the student derives knowledge and understanding of the body and its systems. The human development component serves to identify those aspects of most concern to occupational therapy and as a vehicle for analysis of the activities in which man engages at various ages and stages of life. Concurrently, disease and dysfunction in man is studied with the major emphasis on contemporary health problems and issues.

Laboratory, clinical and community experiences are utilized extensively throughout the curriculum to provide for active involvement of the student in his learning. Major emphases are on the social-cultural milieu of the community and examination of the development of the individual's capacities and roles in the family, school and community. The adaptation and modification of activities, design of adaptive equipment and devices, prosthetics and orthotics is included in the laboratory and field experiences.

A minimum of six months full-time field work experience is required. These placements begin the Summer quarter following the junior year and continue throughout the senior year.

The final quarter of the senior year includes the study of special problems, principles of management, an independent study and an introduction to research design and methodology.

A Bachelor of Science degree is awarded upon successful completion of the curriculum and fulfillment of the requirements of field work. The graduate is then recommended to sit for the national certification examination leading to admission to the National Registry maintained by the American Occupational Therapy Association.

Junior Year

Fall Quarter		Credit Hours
Anm 330	Human Anatomy	6
Phy 311	Human Physiology	5
Oth 300	Occupational Therapy and the Community	4
Oth 301	Concepts in Development	2
Oth 303	Group Process	2
Total		19

Winter Quarter

Anm 331	Neuroanatomy	6
Phy 312	Neurophysiology	5
Oth 310	Problems in Dysfunction	2
Oth 305	Developmental Process: Infancy through Adolescence	3
Oth 302	Principles of Occupational Therapy I	3
Total		19

Spring Quarter

Oth 332	Kinesiology	4
Oth 307	Developmental Process Adulthood through Aging	5
Oth 320	Problems in Dysfunction	2
Oth 304	Principles of Occupational Therapy II	5
Total		16

Field Work Experience (June-July)

Years Total Credit Hours 54

Senior Year

Fall Quarter		Credit Hours
Oth 304a	Field Work Experience	8
Oth 400	Principles of Occupational Therapy III	8
or		
Oth 410	Principles of Occupational Therapy IV	8
Total		16

Winter Quarter

Oth 400	Principles of Occupational Therapy III	8
or		
Oth 410	Principles of Occupational Therapy IV	8
Oth 400a	Field Work Experience	8
or		
Oth 410a	Field Work Experience	8
Total		16

Spring Quarter		Credit Hours
Oth 400a	Field Work Experience	8
or		
Oth 410a	Field Work Experience	8
Oth 420	Special Problems	2
Oth 430	Research Design	3
Oth 440	Independent Study	3
Ms 400	Management	3
Total		19

Years Total Credit Hours 51

Physical Therapy

Objectives

Physical Therapy is one of the allied health professions dedicated to the rehabilitation of handicapped individuals. As a member of the health team the physical therapist utilizes a variety of therapeutic measures to help the patient regain the maximum amount of function possible within the limits of his disability. The physical therapist must be able to determine the extent of functional loss then plan and implement an appropriate therapeutic program. Physical therapists must also be able to perform as administrators, researchers, consultants, and occasionally as educators. The physical therapist has completed a four year program leading to a Bachelor of Science in physical therapy.

The physical therapist assistant works within a physical therapy service administered by a professional physical therapist. The assistant functions as a physical therapy team member who contributes to total patient care by performing routine treatment procedures in accordance with planned programs, and by assisting the physical therapist in carrying out complex procedures and programs. He also carries out designated tasks which are required for the efficient operation of the physical therapy service. The physical therapist assistant performs his duties under the guidance and supervision of the physical therapist to whom he is directly responsible. The physical therapist assistant is a graduate of a two year program with an Associate of Science degree in physical therapy.

BACHELOR OF SCIENCE DEGREE

Admission Requirements

Applicants may attend any accredited college or university of his choice for the freshman and sophomore years; however, all requirements of the Medical College of Georgia must be met. Preference will be given to those applicants who have demonstrated superior ability in all academic areas. In planning his course work for the first two years the student should provide himself with a broad base of experiences to help him identify his areas of interest and competence as well as to give him a wide background to meet the varied challenges of modern society. Physical therapy is a profession which requires a knowledge of human behavior, physical and psychological, as well as a knowledge of man's history, literature, art, music, communicative skills, society past and present, economic problems, educational patterns and business methods. Prospective applicants are encouraged to contact the Department of Physical Therapy early in their academic careers to insure their completing the necessary prerequisites. Accepted students are admitted to the program at the beginning of fall quarter each year.

Specific Requirements

The Department of Physical Therapy encourages flexibility in meeting their requirements. In addition to the general admission requirements listed by the Medical College, School of Allied Health Sciences, the students are encouraged to take courses that interest them. Course work should include the following:

Area I—Humanities	Credit Hours
Composition	5
Literature	5
Humanities	10
Total	20

(Select from courses in Art, Creative Writing, Humanities, Languages, Literature, Religion, Journalism, and/or Speech.)

Area II—Mathematics and Natural Sciences

Mathematics	5
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(Select courses from College Algebra, Trigonometry, Pre-calculus, or Advanced Mathematics.)

Chemistry	Credit Hours 5-10
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(Select laboratory courses only from General, Inorganic or Organic Chemistry.)

Physics	5-10
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(Select laboratory courses only from Mechanics, Heat, Light, Sound, Electricity and Magnetism.)

Biological Sciences	15
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(Select laboratory courses only from General Biology, Micro-biology, Zoology (vertebrate preferred), Comparative Anatomy, Embryology and Genetics.)

Total 30-40

Area III—Social Sciences

History	5
Political Science (Government)	5
Psychology	10
Electives	10
Total	30

(Select courses from Anthropology, Criminology, Geology, Geography, Economics, Philosophy, Psychology and Sociology.)

Area IV—Major Area

Select from any areas of interest. Students are encouraged to take courses in a broad spectrum rather than concentrate all their efforts in the sciences.

Total 10

Application Procedure

Application forms with instructions for completing the admission procedure may be obtained from the Office of Admissions, School of Allied Health Sciences, School of Nursing.

Applications should be submitted between September 1 and March 15 previous to anticipated enrollment. Early application is recommended. Applicants should submit a list of current and/or planned courses and credits. A transcript should be sent at the end of each quarter as it is completed. No application fee is required.

1. Applications must be filed no later than March 15; all procedures must be completed by April

- 1 of the year in which one is applying for admission in September.
- 2. A personal interview with members of the department should be scheduled by the prospective student after application and transcripts have been filed and prior to April 1. Early scheduling of interviews is recommended.
- 3. Have completed at least 90 quarter hours (60 semester hours) exclusive of physical education with a minimum grade point average (on a 4.0 system) of C (2.0) overall and C(2.5) in the sciences and mathematics.

Selection of applicants who meet admission requirements begins in April of each year. Applicants will be notified of the final action on their application in May.

Financial Aid

In addition to the sources of financial aid available to all College students there are some sources available specifically for students enrolled in a physical therapy curriculum. For information on these sources contact: Chairman, Department of Physical Therapy, Medical College of Georgia.

Special Needs

Students who are accepted into the program must be prepared to travel to facilities throughout the United States to complete the internship requirements during the senior year of study.

Some travel will also be required to facilities in Georgia and South Carolina during the junior year. Financial assistance for these additional expenses cannot be guaranteed although every effort will be made to assist students with major financial problems.

Accreditation

The curriculum has been approved by the Council on Medical Education of the American Medical Association and of the American Physical Therapy Association. Graduates are eligible for the licensing examination required for the practice of physical therapy.

Curriculum

The curriculum covers the junior and senior years including the intervening summer leading to

a Bachelor of Science degree with a major in physical therapy. A detailed study of normal human function, structures, and systems is followed by a study of the various pathological conditions which interfere with function and the medical, surgical and therapeutic procedures which are utilized to enable the patient to regain the maximum amount of function possible. Students are also introduced to basic research procedures, supervisory and management activities and educational systems in health care.

Classroom, laboratory, clinical and independent study experiences are provided. The clinical facilities are selected to provide a broad base of experiences in a variety of settings.

Starting spring quarter in the junior year the curriculum is divided into a unit system rather than quarters. Therefore, student time off is scheduled between units and may differ from that scheduled for the rest of the School of Allied Health Sciences. For the better understanding of this Catalog, however, the courses have been outlined in quarters.

Junior Year

Fall Quarter		Credit Hours
Anm 330	Advanced Systemic Anatomy	6
Phy 330	Principles of Human Physiology I	5
Pth 300	Dynamics of Human Function I	7
Ahs 300a	Health Care Environment	3
Total		21

Winter Quarter

Anm 331	Meuroanatomy	6
Phy 331	Principles of Human Physiology II	5
Pth 301	Dynamics of Human Function II	7
Pth 320	Clinical Experiences I	1
Total		19

Spring Quarter

Pth 310	Concepts of Dysfunction I (Units I, II)	15
Pth 340	Interpersonal Relations I	2
Pth 321	Clinical Experiences II	2
Total		19

Summer Quarter

Pth 410	Concepts of Dysfunction II (Units III, IV, V)	15
Pth 431	Community Health	5
Pth 322	Clinical Experience III	2
Pth 420	Clinical Experience IV	2
Total		24

Years Total Credit Hours	83
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Senior Year

Fall Quarter		Credit Hours
Pth 411	Concepts of Dysfunction II (Units VI, VII)	14
Pth 432	Designs for Administration	5
Pth 421	Clinical Experiences IV	2
Total		21

Winter Quarter

Pth 412	Concepts of Dysfunction IV (Units VIII, IX)	11
Pth 430	Research Methodology	5
Pth 440	Independent Study	2
Pth 422	Clinical Experiences V	6
Total		24

Spring Quarter

Pth 434	Learning Processes	5
Pth 441	Independent Study	10
Pth 433	Seminar	2
Pth 423	Clinical Experiences VI	6
Total		23

Years Total Credit Hours	68
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ASSOCIATE OF SCIENCE DEGREE

Admission Requirements

Candidate for admission must meet the following requirements:

1. The applicant must have a high school diploma or equivalent. Individuals who did not graduate from high school may be considered for admission by presenting a State Department of Education Certificate of High School Equivalency. Satisfactory scores on the General Education Developmental Test and Scholastic Aptitude Test are also required.
2. Have a minimum score of 650 on the Scholastic Aptitude Test.
3. Have a minimum cumulative high school grade point that is equivalent to a C average, and must have a minimum of a C in all math and science courses.
4. Give evidence of satisfactory physical and mental capabilities to fulfill the role of a physical therapist assistant.

Application Procedures

Application forms and instructions should be obtained from the Office of Admissions, School of Allied Health Sciences, School of Nursing.

Applications should be submitted between January 1, and May 15 of the year of anticipated enrollment. High school transcripts should include the applicant's first semester of his senior year. Applicants should submit a list of courses and credits to be taken for graduation. A complete transcript and evidence of graduation is required prior to admission. No application fee is required.

1. Applications must be filed no later than May 15 of the year in which one is applying for admission in August.
2. A personal interview with members of the department should be scheduled by the prospective student after application and transcripts have been filed. Early scheduling of interviews is recommended.

Class size is limited and not all applicants who meet minimum admission requirements may be selected. Selection of applicants begins in May of each year.

Special Needs

Students who are accepted into the program must be prepared to travel to facilities throughout the United States to complete the clinical practicum requirements during the sophomore year of study. Some travel will also be required to facilities in Georgia and South Carolina during the Freshman year. Financial assistance for these additional expenses cannot be guaranteed although every effort will be made to assist students with major financial problems.

Curriculum

All the Medical College of Georgia, physical therapist assistant education involves a two year course of study. Entering students will participate in a special short term physical therapy introduction unit prior to the fall quarter of their freshman year.

The curriculum covers the freshman and sophomore years including the intervening summer leading to an Associate of Science degree with a major in physical therapy. It contains a blend of general education and physical therapy courses which are designed to promote the individual's technical competence and personal growth.

Students in the program may obtain their general education requirements locally at Augusta College, or they may obtain them at another accredited college or university and transfer the

credits to the program at the Medical College.

The curriculum has been planned in accordance with the standards for physical therapist assistant education as established by the American Physical Therapy Association.

Starting the summer quarter prior to the sophomore year the curriculum is divided into a unit system rather than quarters. Therefore, student time off is scheduled between units and may differ from that scheduled for the rest of the School of Allied Health Sciences. For the better understanding of this catalog however, the courses have been outlined in quarters.

Freshman Year

Summer Quarter*		Credit Hours
Pta 101	Introduction to Physical Therapy	5

Fall Quarter

Bio 111	Anatomy and Physiology I	5
Eng 101	College Composition I	5
Pol 101	American Government I	5
Pta 110	Studies in Human Motion I	2
Total		22

Winter Quarter

Bio 112	Anatomy and Physiology II	5
His 211	American History I: The United States to 1877	5
Psy 101	Principles of Psychology	5
Pta 111	Studies in Human Motion II	2
Total		17

Spring Quarter

Psc 101	Physical Science I	5
	Elective	5
Pta 120	Topics in Physical Therapy I	3
Pta 130	The Helping Relationship	2
Pta 140	Clinical Practicum I	1
Total		16

Summer Quarter*

Pta 121	Topics in Physical Therapy II	5
Pta 141	Clinical Practicum II	2
Total		7

Years Total Credit Hours	62
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*These are special units constructed to meet specific student needs and do not run for the full summer quarter.

Sophomore Year

Fall Quarter		
Pta 220	Topics in Physical Therapy III	13
Pta 240	Clinical Practicum III	2
Total		15

Winter Quarter		Credit Hours
Pta 221	Topics in Physical Therapy IV	8
Pta 241	Clinical Practicum IV	4
Pta 230	Studies in Management	5
Total		17

Spring Quarter

Pta 222	Topics in Physical Therapy V	8
Pta 242	Clinical Practicum V	6
Pta 231	Health Care Issues	5
Total		19

Years Total Credit Hours	51
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Physician's Assistants

The Primary Care Physician's Assistants program at the Medical College of Georgia has been developed to meet a health care need within Georgia and the nation. Its graduates will be able to serve effectively as assistants to primary care physicians in a wide range of practices including rural or urban, solo or group, private or institutional.

The program is designed to fit within the State of Georgia's legal definition and acceptance of the Physician's Assistant.

Accreditation

The status of the Physician's Assistant has been given legal definition and acceptance in the Georgia State Code, H.B. 1591 and 1592. Preliminary approval has been granted by the American Medical Association.

Opportunities

A Physician's Assistant will be trained to assist a primary care physician who today increasingly feels mounting demands upon his professional time. The Physician's Assistant will be able to function under the supervision of the physician, and through his ability to collect a wide range of medical findings and to exercise a degree of independent judgment, relieve the physician. He will be able to perform numerous examinations and therapeutic procedures, thus enabling him to assist in the care of a significant number of patients.

Objectives

The Physician’s Assistant will learn to gather data for personal and medical histories in a tactful manner; to perform basic physical examinations and some special examinations and laboratory tests; and to provide some general diagnoses, basic treatments, and emergency treatments. He will also be taught health facility management, and about personal and professional development.

Admission Requirements

Personal and academic requirements of the Medical College of Georgia must be met by candidates seeking entry to the Physician’s Assistants program.

A personal interview and appropriate documentation of experiences will be required prior to admission.

A candidate must be of excellent physical and mental health, of high moral and ethical character, and must have a strong sense of social/personal concern.

Students will be recruited from applicants who have had previous medical experience or training, from disadvantaged and minority groups, females, or residents of medically underserved areas.

Specific Requirements

Academic: High school diploma or passing General Education Development (GED) scores/ Acceptable College Entrance Examination Board-Scholastic Aptitude Test (CEEBSAT) score/Two years of college credit or its equivalent.

- A. By permission of the Chairman of the department, prior health care experience may be substituted for up to 30 quarter hours to satisfy the admission requirement of 90 quarter hours of college credits.
- B. With the program director’s permission, the GED equivalency test scores may be used for high school credit and acceptable scores on College Entrance Examination Board and College Level Examination Program for some of all freshman/sophomore college credits.
- C. Applicants wishing to transfer college credits from an accredited institution should note that a minimum of 90 quarter hours, (exclusive of physical education), of acceptable work is needed.

D. Ex-military personnel should contact USAFI Headquarters, Madison, Wisconsin 53713 to get GED scores. For CEEB-CLEP scores write College Level Examination Program, Box 1821, Princeton, New Jersey 08540. For CEEB-SAT scores, write Education Testing Service, Box 592, Princeton, New Jersey 08540.

Prior Credits Suggested for Admission

Area I—Humanities	Quarter Hours
English (Composition)	10
Humanities	10
Total	20

SUGGESTED COURSES: Art, Literature, Music, Philosophy, Speech, Foreign Language, Religion.

Area II—Natural Sciences	
Chemistry	10
Mathematics	5
Electives	5
Total	20

SUGGESTED COURSES: Biology, Physics, Anatomy, Physiology, Genetics, Zoology, Microbiology, Comparative Anatomy, Embryology,

Area III—Social Sciences
SUGGESTED COURSES: American History*, Political Science*, Sociology, Psychology, Economics, History, Geography, Counseling, Growth & Development.

Area IV—Major Field
SUGGESTED COURSES: Accounting, Computer Programming, Science (selected from courses not taken in Area II) Nursing (any courses offered by an accredited college or school of nursing).

*These courses must satisfy the Georgia legislative requirements. The state of Georgia requires that any student receiving a degree from any institution in the University System will have demonstrated a proficiency in United States and Georgia Constitution and History. Exemption Examinations may be taken by both in and out-of-state students; however, no credit hours are earned. Electives may be substituted for these courses if these requirements have been met by the exemption examination.

Application Procedures

Application forms for completing the admission procedures may be obtained from the Office of Admission, School of Allied Health Sciences, School of Nursing, Georgia, Augusta, Georgia 30902. Applications for those entering the September class should be forwarded promptly and they must be completed by April 15. When notified of acceptance, the applicant is requested to accept or decline promptly the appointment in writing to the program director.

Estimated Additional Expenses Specific to Physician's Assistants*

	First Year	Second Year
Books and Supplies	\$ 294.00	\$ 294.00
Uniforms and Instruments	268.00	--
Total	\$ 562.00	\$ 294.00

*Matriculation and other fees stated in General Information in catalog.

Certification

The student who satisfactorily completes the Physician's Assistants program will receive a Bachelor of Science degree from the Medical College of Georgia with a Primary Care Physician's Assistants major designation.

He will also receive certification of satisfactory completion of a Physician Assistants program from an accredited institution.

Recommendation for Graduation

Recommendation for graduation is made by the faculty of the Physician's Assistants program.

Curriculum

The curriculum of the Physician's Assistants program at the Medical College of Georgia is presented during 24 consecutive months.

Phase I
(Classes conducted on the Medical College of Georgia campus)

First Year		Credit Hours
Fall Quarter		
Phy 311	Physiology	5
Cmb 310	Microbiology	5
Mtc 370	Microbiology	1
Anm 330	Anatomy	6
Pad 308	Techniques of Physical Diagnosis and Selected Topics on Medical Ethics	5
Total		22

Winter Quarter		
Phy 312	Physiology	5
Cmb 345	Biochemistry	5
Anm 331	Neuro-Anatomy	5
Pad 335	Dog Lab	5
Total		20

Spring Quarter		
Pad 319	Pharmacology	5
Pad 309	Techniques of Physical Diagnosis and Communication Skills	5
Pad 332	Diagnostic Specialty Techniques	5
Pad 321	Clinical Lab	5
Total		20

Years Total Credit Hours 62

Phase II
(Summer Quarter of First Year through Spring Quarter of second year)

Clinical Rotations Required	Length	Credit Hours
Pad 405 Pediatrics	6 weeks	12
Pad 406 OB-GYN	4 weeks	9
Pad 420 Emergency Room	4 weeks	9
Pad 410 Surgery	6 weeks	12
Pad 407 Mental Health	4 weeks	9
Pad 404 Medicine	6 weeks	12
Pad 403 Family Practice	6 weeks	12
Total		75

Phase III

Summer Quarter		
Pad 401	Preceptorship (8 weeks)	13
Pad 500's	Electives (4 weeks) x 2	13
Total		26

Years Total Credit Hours 163

Radiologic Technologies

Radiologic Technologists work with Radiologists in the x-ray department of a hospital or in private offices. The Radiologist is a physician who specializes in the medical aspect of Radiology, while the Radiologic Technologist assumes responsibility for the technical portion of the specialty.

The technologist is responsible for the production of high quality radiographs by use of the minimum amounts of x-radiation. The Radiologic Technologist includes in his area of responsibility (1) the care of the patient during radiologic examination, (2) the protection from ionizing radiation of the patient and all personnel involved in radiologic procedures, (3) the selection, use, and care of radiologic equipment.

In order to perform these varied duties, which may possibly include departmental administration, the technologist must have a sound working knowledge of such varied subjects as the sciences, health care, business practices, and personnel management.

Accreditation

The Radiologic Technologies programs are approved by:

The Board of Regents of the University System of Georgia

The Council on Medical Education of the American Medical Association

The Joint Review Committee on Education in Radiologic Technology

The American College of Radiology and its Commission on Technologists Affairs

The American Registry of Radiologic Technologists

Admission Requirements

The general requirements for admission are set out in General Information. Candidates for all programs are required to have graduated from an accredited high school or equivalent. Excellent physical and mental health are required. A strong sense of social-personal concern, and a high moral and ethical character is desirable. Preference will be given to those applicants who have demonstrated satisfactory academic ability, particularly in the area of science and math.

Fees and Expenses

See the General Information Section for facts regarding tuition and fees. Books and supplies average about \$75 per year. Uniforms average about \$100 the first year and \$25 in subsequent years.

Information regarding financial aid may be found in the General Information Section of the Catalog.

Programs

The following courses of study are available through the Department of Radiologic Technologies:

- Associate of Science Degree in Radiologic Technology
- Bachelor of Science Degree in Radiologic Technology
- Certificate in Nuclear Medicine Technology
- Bachelor of Science in Nuclear Medicine Technology
- Certificate in Radiation Therapy Technology

Course descriptions for the curriculum listed for each program may be found in the General Information Section of the Catalog. All liberal arts course numbers listed refer to those courses as described under the University System of Georgia.

Curriculum

1. Associate of Science Degree-Radiologic Technology

This twenty-four month course of study is open to high school graduates, with or without previous college credits. This program prepares students to take the American Registry of Radiologic Technologists National Examination. Additional clinical hours are included throughout these two years to meet the requirements of the American Registry of Radiologic Technologists.

First Year

Fall Quarter		Credit Hours
Rad 101	Radiographic Anatomy & Physiology	1
Rad 102	Radiographic Positioning	1
Rad 103	Radiographic Film Critique	1
Rad 104	Radiographic Exposure	1

First Year

Fall Quarter (Cont.)		Credit Hours
Rad 105	Radiographic Physics	1
Rad 106	Clinical Experience	5
*His 211	U.S. History	5
Total		15

Winter Quarter

Rad 111	Radiographic Anatomy & Physiology	1
Rad 112	Radiographic Positioning	1
Rad 113	Radiographic Film Critique	1
Rad 114	Radiographic Exposure	1
Rad 115	Radiographic Physics	1
Rad 116	Clinical Experience	5
Eng 101	College Composition	5
Total		15

Spring Quarter

Rad 121	Radiographic Anatomy & Physiology	1
Rad 122	Radiographic Positioning	1
Rad 123	Radiographic Film Critique	1
Rad 124	Radiographic Exposure	1
Rad 125	Radiographic Physics	1
Rad 126	Clinical Experience	5
Eng 102	College Composition	5
Total		15

Years Total Credit Hours 45

Summer Quarter

Additional clinical experience is undertaken at this time to meet American Registry of Radiologic Technologists requirements.

*Electives may be substituted for these courses if their requirements have been met by the exemption examination on the History and Constitution of the United States and Georgia.

Second Year

Fall Quarter		Credit Hours
Rad 201	Radiographic Anatomy & Physiology	1
Rad 202	Radiographic Positioning	1
Rad 203	Radiographic Film Critique	1
Rad 204	Radiographic Exposure	1
Rad 205	Radiographic Physics	1
Rad 206	Clinical Experience	5
Mat 101	Freshman Mathematics	5
Total		15

Winter Quarter

Rad 211	Radiographic Anatomy & Physiology	1
Rad 212	Radiographic Positioning	1

Winter Quarter (Cont.)		Credit Hours
Rad 213	Radiographic Film Critique	1
Rad 214	Radiographic Exposure	1
Rad 215	Radiographic Physics	1
Rad 216	Clinical Experience	5
Bio 101	Biology	5
Total		15

Spring Quarter

Rad 221	Radiographic Anatomy & Physiology	1
Rad 222	Radiographic Positioning	1
Rad 223	Radiographic Film Critique	1
Rad 224	Radiographic Exposure	1
Rad 225	Radiographic Physics	1
Rad 226	Clinical Experience	5
*Pol 101	American Government	5
Total		15

Years Total Credit Hours 45

Summer Quarter

Additional clinical experience is undertaken at this time to meet American Registry of Radiologic Technologists requirements.

*Electives may be substituted for these courses if their requirements have been met by the exemption examination on the History and Constitution of the United States and Georgia.

2. Bachelor of Science Degree—Radiologic Technology

This program is open to graduates of an A.S. degree program in Radiologic Technology and to Registered Technologists with or without previous college credit. A validation examination is available for Radiologic Technologists who wish to receive credit for previous R.T. training upon entering this program.

Students entering the third year with an A.S. degree in Radiologic Technology must complete the program in the left column, while those entering with R.T. certification only must complete the subjects in both columns.

Third Year

Fall Quarter		Credit Hours
Humanities	5	Political Science 5
Math	5	Math 5
Biology	5	Elective 5
Total	15	Total 15

Winter Quarter		Credit Hours	
Humanities	5	English	5
Psychology	5	American History	5
Chemistry	5	Elective	5
Total	15	Total	15

Spring Quarter		Credit Hours	
Sociology	5	English	5
Education	5	Biology	5
Chemistry	5	Elective	5
Total	15	Total	15

Years Total Credit Hours 45

Fourth Year

Fall Quarter

Rad 404	Advanced Radiographic Technical Procedures	2
Rad 405	Advanced Radiologic Physics	2
Rad 406	Radiologic Technology	5
Rad 407	Radiology Accounting and Management	1
Rad 408	Radiologic Sensitometry Laboratory	5
Ana 320	Anatomy and Physiology	5
Total		20

Winter Quarter

Rad 414	Advanced Radiographic Technical Procedures	2
Rad 415	Advanced Radiologic Physics	2
Rad 416	Radiologic Technology	5
Rad 417	Radiology Accounting and Management	1
Rad 418	Nuclear Medicine Laboratory	5
Ana 321	Anatomy and Physiology	5
Total		20

Spring Quarter

Rad 424	Advanced Radiographic Technical Procedures	2
Rad 425	Advanced Radiologic Physics	2
Rad 426	Radiologic Technology	5
Rad 427	Radiology Accounting and Management	1
Rad 428	Radiation Therapy	5
Total		15

Years Total Credit Hours 55

Validation Examination Credit Hours 45

TOTAL CREDIT HOURS FOR PROGRAM 190

3. Certificate—Nuclear Medicine Technology

The twelve month curriculum in Nuclear Medicine Technology is open to Registered Radiologic Technologists, Registered Nurses, Registered

Medical Technologists, or suitably prepared persons with Bachelor's degrees. This is a program for the technician who performs a minimum of radiochemical laboratory work and prepares the student to meet the American Registry of Radiologic Technologists registry requirements for certification in Nuclear Medicine Technology.

Fall Quarter		Credit Hours
Pcs 301	Physics of Nuclear Medicine	5
Nmt 311	Introduction to Nuclear Medicine	1
Nmt 321	Nuclear Medicine Technology	4
Nmt 301	Clinical Nuclear Medicine	5
Total		15

Winter Quarter

Pcs 302	Physics of Nuclear Medicine	5
Nmt 312	Nuclear Medicine Technology	5
Nmt 302	Clinical Nuclear Medicine	5
Total		15

Spring Quarter

Pcs 303	Physics of Nuclear Medicine	5
Mra 401	Fundamentals of Medical Science	5
Nmt 303	Clinical Nuclear Medicine	5
Total		15

Summer Quarter

Nmt 304	Clinical Nuclear Medicine	5
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Years Total Credit Hours 50

4. Bachelor of Science—Nuclear Medicine Technology

A B.S. degree in Nuclear Medicine Technology may be awarded after the student has acquired 90 quarter hours of liberal arts credit and has completed a two year program in nuclear medicine technology.

Basic liberal arts requirements are outlined below:

Area I—Humanities	Credit Hours
Basic Grammar and Composition	5
Literature	5
Electives	10

Area II—Mathematics and Natural Sciences

Math (Pre-calculus)	5
2 course sequence in Biology	10
Electives	5

Area III—Social Science	Credit Hours
*History	5
*Political Science—Government	5
Electives	10

*Electives may be substituted for these courses if their requirements have been met by the exemption examination on the History and Constitution of the United States and Georgia.

Area IV—Major Area	
Chemistry—including General, Qualitative, Quantitative, Analytical or Organic	20
Biology, Physics, Physical Science, or Math	10

The junior year will consist of the courses outlined under Certificate—Nuclear Medicine Technology above.

The senior year courses are as follows:

Fall Quarter	
Pcs 411	Advanced Mathematics and Physics 5
Nmt 421	Special Radiochemical Laboratory Tests 5
Nmt 401	Clinical Nuclear Medicine 5
	Total 15

Winter Quarter	
Pcs 412	Clinical Data Processing 5
Nmt 422	Selected Topics 5
Nmt 402	Clinical Nuclear Medicine 5
	Total 15

Spring Quarter	
Pcs 413	Instrument Calibration and Electronics 5
Rad 433	Survey of Radiologic and Medical Technology 5
Nmt 403	Clinical Nuclear Medicine 5
	Total 15

Summer Quarter	
Nmt 404	Clinical Nuclear Medicine 5
Years Total Credit Hours	50

5. Certificate—Radiation Therapy Technology

This twelve month program is open to Radiologic Technologists, Registered Nurses, or Nuclear Medicine Technologists. The students will be prepared to take the American Registry of Radiologic Technologists National Examination in Radiation Therapy.

Fall Quarter		Credit Hours
Rth 305	Principles of Oncology	5
Rth 306	Radiation Therapy Rechnology	10
	Total	15

Winter Quarter		
Rth 315	Principles of Radiation Oncology	5
Rth 316	Radiation Therapy Technology	10
	Total	15

Spring Quarter		
Rth 325	Principles of Oncology	5
Rth 326	Radiation Therapy Technology	10
	Total	15

Years Total Credit Hours	45
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Summer Quarter

Additional clinical experience is undertaken at this time to meet the requirements of the American Registry of Radiologic Technologists.

Requirements for Graduation

The General Information Section contains requirements for graduation. The faculty of the Department of Radiologic Technologies makes recommendations for graduation based upon a student's ability to develop those qualities considered essential for the profession.

Dean—Judson C. Hickey

Associate Dean for Academic Affairs—Dr. Thomas J. Zwemer

Associate Dean for Biological Sciences—Dr. George Burnett

Associate Dean for Clinical Sciences—Dr. Leon A. Leonard

Community Dentistry—Dr. James E. Williams, Chairman

Oral Biology—Dr. George Burnett, Chairman

Oral Medicine—Dr. Bruce Rice, Chairman

Oral Pathology—Dr. Steve Kolas, Chairman

Oral Surgery—Dr. Richard Topazian, Chairman

Endodontics—Dr. Leon A. Leonard, Chairman

Orthodontics—Dr. Thomas Zwemer, Chairman

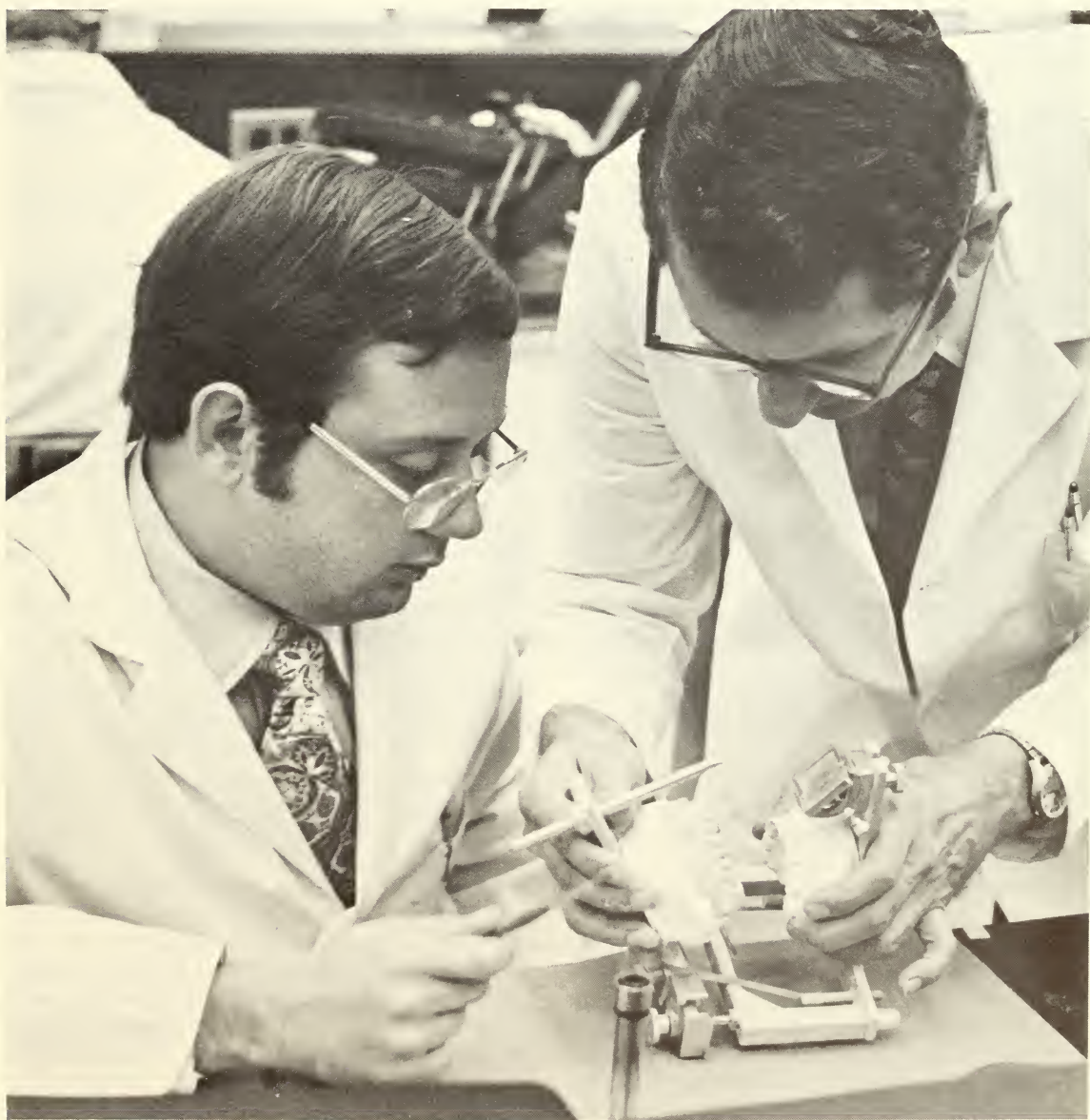
Pedodontics—Dr. David R. Myers, Chairman

Peridontics—Dr. Billy Pennel, Chairman

Prosthodontics—Dr. Arthur Rahn, Chairman

Restorative Dentistry—Dr. Robert Kinzer, Chairman

School of Dentistry



School of Dentistry

Philosophy

Dentistry is one of the senior health professions, bonded to other health care professions by common goals and objectives. The dentist, the physician, and the health scientist share in contributing to the total health of the individual and his community.

The dentist, in this concept, must have specific knowledge of and skills in the diagnosis, prevention, and treatment of diseases associated with the oral cavity, as well as a biological understanding of oral health and disease in terms of total health and disease. Furthermore, he must be able to correlate both areas of knowledge to fulfill his role and effectively communicate with colleagues in all health professions.

An understanding of the scientific method is necessary for the dentist to evaluate proposed methods of diagnosis, prevention, and treatment and to aid in the development of new, sound and effective methods. Finally, he must have a sense of obligation to serve individual and community needs.

With these concepts representing its philosophy, the purpose of the College's School of Dentistry is to educate students to accept and to discharge competently the responsibilities of preserving individual and community health.

Objectives

The School of Dentistry has set before it the objectives of teaching, research, and service that are common to all institutions of higher learning. In specific relation to the School of Dentistry they may be stated as:

- 1. To educate dentists and the broad spectrum of allied personnel required to provide for the present and future oral health needs of the total community.
- 2. To foster and conduct active research programs in basic and applied areas of dentistry as well as supporting experimentation and innovations in the art and science of dental education.
- 3. To provide preventive, diagnostic, and therapeutic dental services to citizens of the State of Georgia in cooperation with other health and educational related organizations, and in accordance with the available physical facilities

and teaching faculty of the School of Dentistry.

Fees and Expenses

Estimated Student Expenses Per Academic Year

	First Year (12 months)	Second Year (12 months)	Third Year (12 months)
*Matriculation fee	\$1400	\$1400	\$1400
**Student Health fee	40	40	40
***Student Activity fee	40	40	40
Books	300	160	50
Instruments	2450	315	10
Uniforms	20	20	20
TOTAL	\$4250	\$1975	\$1560

(All fees are subject to change)

*Non-Resident Tuition (in addition to matriculation fee) is \$350 per quarter.

**Student Health fee is \$10 per quarter.

***Student Activity fee is \$10 per quarter.

Proficient students who qualify for graduation after nine months of their third year should project third year expenses to be \$1190 instead of \$1560, for the full twelve-month period.

Additionally, estimated housing, food, and personal expenses were not included due to general individual variance. In developing a personal budget, do not fail to include these items. Information on hospitalization and life insurance is in the General Information Section.

Admission Requirements

- 1. American Dental Association Admissions Test (given in October, January and April)
- 2. Personal Interview by invitation
- 3. Two years of college is a minimum, including completion of ten quarter hours (six semester hours) of the following college courses:

Inorganic Chemistry with lab
Organic Chemistry with lab
Biology (or Zoology) with lab
Physics with lab
English

Great emphasis will be placed on academic performance during selection procedure. Majors in social sciences, psychology, and humanities will be given equal consideration with those in biology and physical sciences.

Application Procedure

Admission to the School of Dentistry is on a competitive basis. The Admissions Committee selects the applicants who seem best qualified for the study of dentistry from among those who apply. Application forms will be available July 1 in the Office of Student Affairs. No application can be considered if received after Feb. 1 of the year of matriculation.

Financial Aid

The Office of Financial Aid has prepared a Bulletin outlining its financial aid program, as well as other programs of assistance not directly administered by the College. This may be obtained along with application materials by writing:

Office of Financial Aid
Medical College of Georgia
Augusta, Georgia 30902

Applications for aid are separate from admission applications, i.e. one need not be officially accepted for admission before applying for assistance. Application materials should be submitted by May 1 prior to enrollment, although later applications will be processed on a "late" basis.

Curriculum

Design and Emphasis

The pre-doctoral curriculum offered by the Medical College of Georgia School of Dentistry will require twelve academic quarters in three calendar years and will lead to the D.M.D. degree. Exceptional students may be graduated in eleven quarters to allow for summer enrollment in post-graduate programs and internships. The curriculum will initially emphasize the basic sciences with an expanding emphasis upon the clinical sciences. Courses in the fundamental principles within each basic science discipline, coupled with early clinical exposure, will enable the student to make a lasting correlation of the basic and clinical sciences. The student's knowledge and familiarity with the basic sciences will be reinforced with applied courses in each discipline. This early and continuing correlation is designed to educate the student to respect biological systems and to develop a basic understanding of the response of tissue to stimuli.

The expanding health needs of society will be interrelated throughout the curriculum. Courses relating to principles of public health dentistry,

epidemiology of caries and periodontal disease, statistical methods, behavioral aspects of patient populations, dental ethics, and jurisprudence will be a meaningful part of the curriculum. Practical field experiences will be arranged for dental students in epidemiologic, preventive, and other appropriate community activities. Preventive dentistry will be the over-riding theme of all clinical disciplines.

Individual Student Development

Each student will have opportunities for development and expression in specific areas of his interest and ability. Three weeks will be set aside each year in which elective courses and other structured situations will be available to students interested in academic pursuits. Students will be encouraged to contribute to the field of research and education. Those students demonstrating superior clinical ability and interest will be challenged with more complex technical and clinical problems. The student with motivation in the social aspects of the profession will be further challenged in preventive and community dentistry projects.

The Student and the Health Team

The use of auxiliary personnel will be stressed as a realistic method of preparing the student for the efficient practice of dentistry. The clinical design will simulate a group practice environment with dental assistants, hygienists, and technicians playing an active role in comprehensive patient care. The close academic and physical relationship with the School of Medicine and the teaching hospital will provide an awareness of associated medical sciences and hospital orientation throughout all three years. This emphasis is desirable in preparing the student not only for contemporary practice, but for the future evolution of the profession.

The Student and Research

The dental student will have opportunity to participate in faculty research projects in both basic and clinical areas. He will be encouraged to design and carry out projects of his own as well. The student also will be encouraged to participate in graduate, post graduate, and continuing education courses offered at the College and other dental schools within the United States as a part of the elective program.

Methods of Instruction

The curriculum of the School of Dentistry will be structured around a learning-oriented environment rather than the traditional teaching-oriented

situation. Seminars and conferences, taking precedence over the lecture as a vehicle to stimulate independent thought, will give opportunity for expression and interchange upon the part of each student. Self-instructional materials will be used whenever possible to individualize instruction and preparation.

Pre Session—Three Weeks	Credit Hours
Community Dentistry	56
Oral Medicine	28
Occlusion	32
Total Contact Hours	116

First Quarter—Eleven Weeks	
Dental Auxiliary Utilization	11
Occlusion	55
Restorative	88
Oral Medicine	44
Periodontics	22
Human Biology	121
Student Conference	15
Dental Materials	22
Holiday	16
(Unstructured—44 Hours)	
Bioclinical Seminar	2
Total Contact Hours	396

Vacation—Two Weeks	
Second Quarter—Eleven Weeks	
Occlusion	77
Restorative	112
Periodontics	28
Oral Medicine	22
Human Biology	122
Student Conference	21
(Unstructured—44 Hours)	
Bioclinical Seminar	2
Dental Materials	11
DAU (1)	
Total Contact Hours	396

Vacation—One Week	
Third Quarter—Eleven Weeks	
Restorative	88
Occlusion	36
Periodontics	14
Local Antsthesia	22
Radiology	14
Human Biology	157
Treatment Planning	11
Clinical Practice	88
Student Conference	3
(Unstructured—5 Hours)	
Bioclinical Seminar	2
Total Contact Hours	435

Vacation—Three or Four Weeks	
Fourth Quarter—Eleven Weeks	Credit Hours
Clinic	76
Enrichment	96
Human Biology	93
Endodontics	48
Orthodontics	16
Treatment Planning	8
Fixed Prosthodontics	80
Holiday	8
(Unstructured—13 Hours)	
Bioclinical Seminar	2
Total Contact Hours	427

Vacation—One Week	
Fifth Quarter—Eleven Weeks	
Fixed Prosthodontics	60
Pathology	55
Open Clinic	70
Occlusion	48
Periodontics	15
Human Biology	45
Pedodontics	68
Community Dentistry	36
(Unstructured—41 Hours)	
Bioclinical Seminar	2
Total Contact Hours	399

Vacation—One or Two Weeks	
Sixth Quarter—Ten Weeks	
Removable Partial Dentures	120
Open Clinic	80
Occlusion	20
Pathology	40
Periodontics	12
Human Biology	67
Continuing Education	8
Oral Medicine	11
Oral Surgery	26
Dental Ceramics	44
DAU (1)	
(Unstructured—9 Hours)	
Bioclinical Seminar	2
Total Contact Hours	431

Community Dentistry Week—36 Hours	
Vacation—One Week	
Seventh Quarter—Eleven Weeks	
Complete Dentures	151
Open Clinic	114
Pathology	33
Oral Medicine (Nutrition)	11
Human Biology	31
Sedation I & II	22
Bioclinical Seminar	2

Seventh Quarter—Eleven Weeks (Cont.)	
Credit Hours	
Restorative (Foil)	40
DAU (1)	
(Unstructured—35 Hours)	
Total Contact Hours	405

Vacation—Four Weeks	
Eighth Quarter—Eleven Weeks	
Treatment Planning	8
Pathology	48
Clinic	191
Enrichment	96
Human Biology	64
Occlusion	16
Holiday	8
(Unstructured—8 Hours	
DAU (1)	
Total Contact Hours	432

Vacation—One Week	
Ninth Quarter—Ten Weeks	
Open Clinic	250
Prosthodontics	36
Oral Surgery	32
Oral Biology	55
Oral Medicine—Internal Medicine	22
Endodontics	11
National Boards	8
TEAM	24
(Unstructured—2 Hours)	
Total Contact Hours	438

Community Dentistry Week—36 Hours	
Vacation—Two Weeks	
Tenth Quarter—Eleven Weeks	
Open Clinic	317
Special Hospital Clinics	44
Oral Biology	30
Periodontics	22
Treatment Planning	11
Pathology	20
Clinical Seminar (Ortho)	10
(Unstructured—10 Hours)	
Practitioner Orientation	20
Total Contact Hours	430

Vacation—One Week	
Eleventh Quarter—Eleven Weeks	
Open Clinic	342
Community Dentistry	36
Practitioner Orientation	20
Oral Biology	20
Mock Boards	12
Student Conference	10
Total Contact Hours	440

Vacation—Four Weeks	
Twelfth Quarter—Eleven Weeks	
Clinic	398
Occlusion	20
Oral Medicine	12
Practitioner Orientation	10
Total Contact Hours	440
+July Clinic	68

Student Evaluation and Graduation

Student academic and clinical performance is regularly evaluated by the Course Director for each individual course offered by the School of Dentistry. In addition, the overall academic progress of each student is regularly reviewed by a faculty committee. This committee recommends all student promotions, individual curriculum adjustments, remedial action where an unsatisfactory grade is given, and graduation.

Satisfactory completion of the curriculum, the demonstration of clinical competence and the recommendation of the School of Dentistry's Administrative Council are required for graduation.

Dean—Dr. Sam A. Singal

Anatomy—Dr. Dale E. Bockman, Chairman

Cell and Molecular Biology—Dr. Edward Bresnick, Chairman

Endocrinology—Dr. Virenda B. Mahesh, Chairman

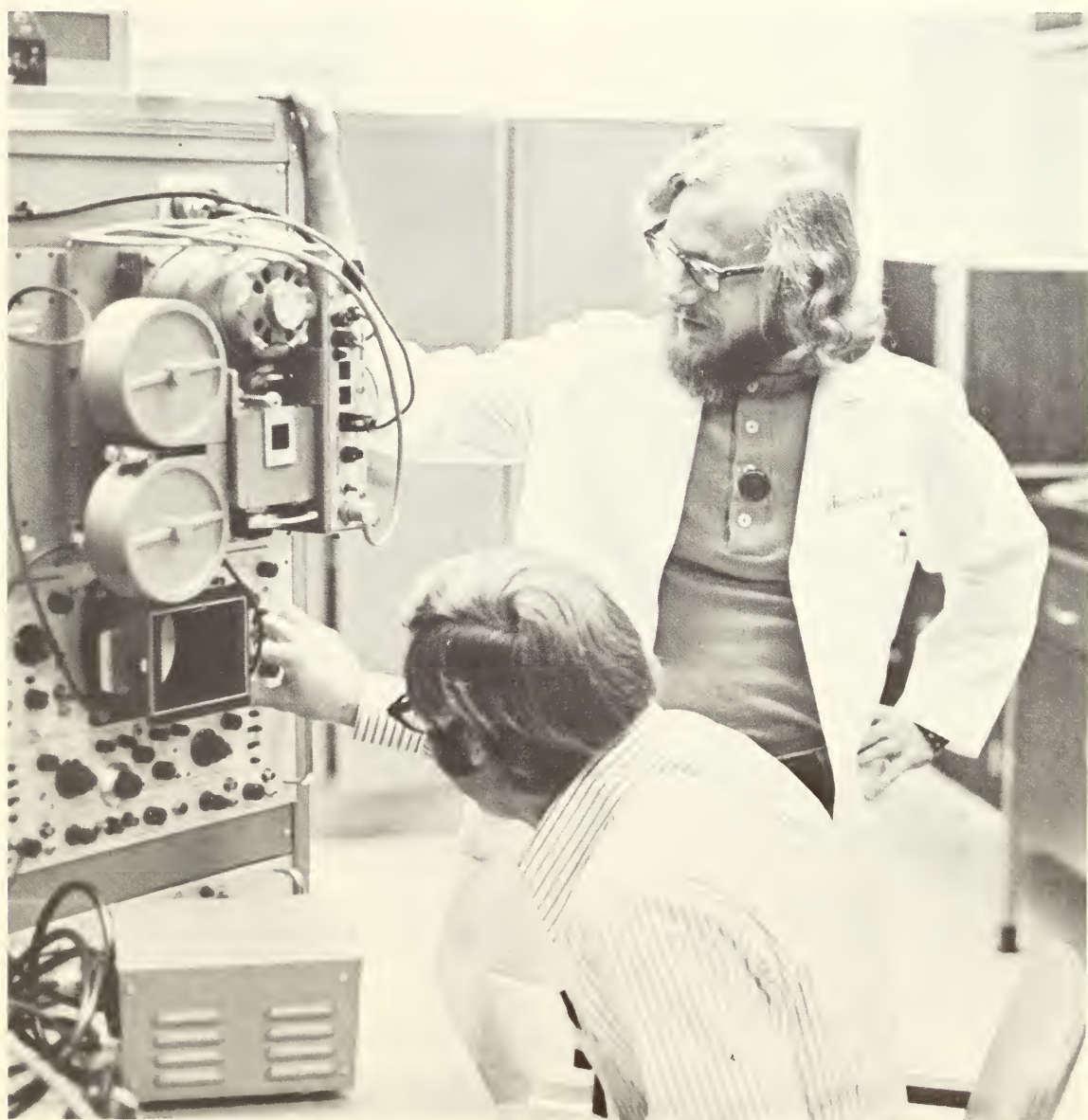
Medical Illustration—Dr. Paul J. Brucker, Chairman

Oral Biology—Dr. George W. Burnett, Chairman

Pharmacology—Dr. Raymond D. Ahlquist, Chairman

Physiology—Dr. Robert C. Little, Chairman

School of Graduate Studies



School of Graduate Studies

The School of Graduate Studies is the administrative unit dealing with graduate study. The graduate program is administered by the Dean of the School of Graduate Studies. The office of the School of Graduate Studies is located in Room 2-E4, Sanders Research and Education Building. Correspondence or inquiries should be sent to: School of Graduate Studies, Medical College of Georgia, Augusta, Georgia 30902.

Council:

The Graduate Council is composed of faculty members appointed by the Dean to represent each of the fields participating in the graduate program. The Council advises the Dean in formulating policies and regulations which govern graduate work.

Faculty:

The members of the graduate faculty are indicated by an asterisk preceding their names in the General Faculty list in the back of this Catalog.

Graduate Student Association:

This organization has been formed to represent the will of the graduate students within the framework of the School and the Medical College of Georgia. All graduate students are urged to participate.

Objectives

The primary goals of the School of Graduate Studies are to help provide excellence of education on the graduate level in human biology for those interested in careers in health science professions; to supply leadership in basic research in areas of human biology so as to provide a firm foundation for the conquest of disease; and to provide academicians to man health science professional schools.

It offers the superior student an opportunity to realize the full extent of his capabilities and to gain the intimate acquaintanceship with the fundamental concepts of his field that will enable him to achieve the highest degree of competence in his chosen discipline.

Degrees

The College is authorized by the Board of Regents of the University System of Georgia to

grant advanced degrees through its School of Graduate Studies.

Since graduate study is a full time endeavor in a program that is expensive in terms of faculty and other crucial resources, primary consideration will be given to those applicants having as their career objectives the completion of a course of study leading to the Doctor of Philosophy degree or a professional Master's degree at the College.

Doctor of Philosophy

This advanced degree is not conferred solely as a result of a prescribed period of study nor will it be conferred upon the completion of any definite amount of work described in advance. Rather, it will be conferred in recognition of proficiency in research, breadth and soundness of scholarship, and thoroughness of acquaintance with a specific field of knowledge as determined by the faculty. Evidence of such attainment must be provided through the passing of such written and oral examinations as may be required and through the presentation of an acceptable dissertation based upon independent research. This degree will be conferred on candidates who have met the requirements in the fields of Anatomy, Biochemistry, Endocrinology, Microbiology, Pharmacology or Physiology.

Doctor of Philosophy- Doctor of Medicine

This program offers the unusual candidate an opportunity to obtain both degrees with research work being performed in the Basic Sciences. The requirements are similar to those described above.

Master of Science

This advanced general degree is a research degree and will be conferred on candidates who have met requirements in the fields of Anatomy, Biochemistry, Endocrinology, Microbiology, Pharmacology, and Physiology.

Master of Science- Doctor of Medicine

This program offers the unusual candidate an opportunity to obtain both degrees with research work being performed in the Basic Sciences.

Master of Science in Oral Biology

This advanced degree is a research degree and will be conferred on candidates who have met the requirements in the field of Oral Biology.

Master of Science in Medical Illustration

This advanced professional degree will be conferred on candidates who have met requirements in the field of Medical Illustration.

Master of Health Education

This advanced professional degree is an educational degree and will be conferred on candidates who have met requirements in the field of Allied Health Sciences.

Requirements for Admission

The following are required of each applicant for admission to the School of Graduate Studies.

The Doctor of Philosophy and Master of Science degree programs

1. A bachelor's degree or equivalent from an accredited college or university.
2. Adequate preparation in the field of proposed graduate study, as determined by the faculty in that field. (See departmental requirements below).
3. Satisfactory scores on the Aptitude Test and the Advanced Test of the Graduate Record Examination. (The Medical College Aptitude Test (MCAT), or its Dental School Equivalent may substitute for the GRE; (see departmental requirements below).
4. A satisfactory physical examination.

Combined Doctor of Philosophy Doctor of Medicine Master of Science-Doctor of Medicine and degrees programs

Applicant must be enrolled in the School of Medicine and should be in the process of completing, in good standing, his first or second year of the medical curriculum. He will require two letters of recommendation from the faculty of the School of Medicine. In addition, a written communication should be received from the applicant's draft board indicating that his enrollment in the M.S.-M.D. or Ph.D.-M.D. programs will not jeopardize his draft status as a medical student.

The requirements for the combined degree programs are not substantially different from those of the individual degree programs.

Master of Science in Oral Biology degree program

1. A DMD or DDS degree or equivalent from a recognized School of Dentistry or its equivalent.
2. Adequate preparation in the field of proposed graduate study as determined by the faculty of Oral Biology.
3. Satisfactory scores on the Aptitude Test and the Advanced Test of the Graduate Record Examination.
4. A satisfactory physical examination.

The Master of Science in Medical Illustration degree program

1. A bachelor's degree from an accredited college or university as set forth in 2 below.
2. Required preparation as follows: 40 quarter hours of studio art courses and 30 quarter hours of biological science courses relating to anatomy physiology.
3. A satisfactory physical examination.
4. A portfolio of original fine art demonstrating proficiency in drawing and painting representational subjects.
5. A personal interview for those satisfactorily fulfilling the above requirements.

The Master of Health Education Degree Program

1. A bachelor's degree or equivalent from an accredited college or university.
2. Adequate preparation in the field of proposed graduate study, as determined by the faculty in that field and evidence of current registration, licensure, or certification as an Allied Health professional.
3. Satisfactory scores on the Aptitude Test of the Graduate Record Examination.
4. A satisfactory physical examination.

Departmental Requirements

Recommended preparation for the School of Graduate Studies varies by department. The following are departmental recommendations:

Anatomy

Recommended preparation: An undergraduate major in zoology or general biology, or a major in chemistry or physics with a minor in zoology or general biology (at least three basic courses).

Cell and Molecular Biology

Graduate Program in Biochemistry

Recommended preparation: Courses at the college level in physics, mathematics through integral calculus, biology, organic chemistry through qualitative organic and a year of physical chemistry.

Graduate Program in Microbiology

Recommended preparation: Adequate background in biology and chemistry, usually an undergraduate major in biology and a minor in chemistry, or a major in chemistry with a minor in biology.

Endocrinology

Recommended preparation: Course-work in inorganic, organic and physical chemistry, qualitative and quantitative analysis, and in biological sciences including such courses as physiology, anatomy, histology, embryology, zoology, etc.

Oral Biology

Recommended preparation: D.D.S., D.M.D. or equivalent degree.

Departmental Requirements: 12 hours of core curriculum including O.B. 811, 822, 833, 841, 852, 863 or acceptable equivalents. Other elective 800 level course to total 15 hours. Acceptable proficiency in a communication skill as determined by the student's advisory committee. At least 30 quarter hours of 900 level courses are required.

Pharmacology

Recommended preparation: Major training in at least one of the following fields: zoology, anatomy, microbiology, physiology, biochemistry, botany, mathematics or electronics. Courses in several of the fields other than the major field are desirable.

Physiology

Recommended preparation: Chemistry, through organic and quantitative analysis; an introductory course in zoology; one course each in comparative anatomy and embryology; a full year in physics and mathematics through differential and integral calculus. The Graduate Record Examination is required of all Physiology applicants.

Admission of Foreign Students

Graduates of foreign colleges and universities who meet the standards of admission as those described above may be considered for admission. Those interested should identify the country of citizenship and the desired field of study in an initial communication. In addition to the other entrance materials, the applicant must submit the result of the Test of English as a Foreign Language. Arrangements for this examination can be made by requesting information concerning examination and locations of examinations from the Educational Testing Service, Princeton, New Jersey 08540. Foreign applicants must start the process of securing admission at least six months before the beginning of the desired time of acceptance.

Application Procedures

Send (or direct) all application materials (application form, application supplement, transcripts, physical examination report and GRE scores) and requests for financial aid to the Dean, School of Graduate Studies. A complete application consists of the following four items.

1. Complete Application Form and Application Supplement Form for those seeking admission to the School of Graduate Studies.

Make certain that in the Reference Section you give the names and complete addresses of three professors qualified to assess your potential as a graduate student in the field you have selected. In addition, if you have already undertaken some graduate study, also give the name(s), title(s) and complete address(es) of the head(s) of the department(s) where you have been or are a graduate student. The School of Graduate Studies office will send Reference Report forms directly to the persons you designate. Make certain you include your Social Security number in the space provided (foreign nationals exempted) and that you complete both forms. Submission of a photograph is optional with the applicant.

2. Transcripts.

Official transcripts of all previous and current college, graduate or professional studies must be received before applications are considered. Transcripts must be received directly from schools attended.

3. Physical Examination Report.

Request the examining physician to make his report on the form supplied. Physical examination reports must be received directly from the physician making the examination.

4. Graduate Record Examination (GRE) Scores

The Aptitude Test and Advanced Test (either chemistry or biology) scores are required of all applicants except applicants to the Master's program in Medical Illustration. Applicants should take the GRE in their senior undergraduate year as early as possible, preferably at one of the Fall administrations rather than Winter or Spring administrations. The Medical College Aptitude Test (MCAT) or the Dental Admissions Test (DAT) may substitute for the GRE. The GRE scores (or MCAT or DAT) should be forwarded to the Dean, School of Graduate Studies.

Final selection of students for admission is subject to the discretion of the Dean of the School

of Graduate Studies. Letters of acceptance will be sent by the Dean.

Registration

The academic program of the student is planned in consultation with the student's major advisor or with the student's major department chairman before selection of a major advisor. All students then begin registration at the School of Graduate Studies office before completion of registration at the Registration Center. Changes in registration are recognized and valid only if they have been made with the consent of the major advisor, the Dean, and the Registrar.

An applicant's registration and class attendance constitute an agreement on the part of the applicant to comply with the rules and regulations of the College as published in the Catalog and other official publications of the College during the student's continued enrollment.

A student's continued enrollment in the School of Graduate Studies is subject to the decision by the Dean and other designated officers that academic grades and progress are satisfactory, that rules of the College are being complied with, and that the best interest of the school and of other students are being served.

Auditors may take graduate courses, but no academic credit is allowed. Auditors pay usual tuition and laboratory fees.

Fees and Expenses

Please see General Information section on Fees and Expenses, and for additional information on deposits, housing, insurance, fees and other costs.

Fees for graduate students enrolled for 12 quarter hours or more:

Matriculation Fee—**\$145 per quarter.**

Non-Resident Fee (in addition to Matriculation Fee)—**\$240 per quarter.** See General Information on State Residence Policy.

Fees for graduate students enrolled for less than 12 quarter hours:

Matriculation Fee—**\$12 per quarter hour.**

Non-Resident Fee (in addition to Matriculation Fee) for students enrolled less than 12 quarter hours—**\$20 per quarter hour.**

Scholastic Regulations

Classifications of Graduate Students

Students may be admitted to the School of Graduate Studies under either of the following classifications:

1. Regular Graduate Student. A student who is admitted to the School of Graduate Studies, and who wishes to earn an advanced degree. Such a student, however, is not specifically considered either a Doctoral or Master's student until he or she has met the requirements for candidacy for a particular degree. (See degree requirements below).
2. Special Graduate Student. A student who is admitted to the School of Graduate Studies and who does not wish to earn an advanced degree, or who is admitted conditionally and who may later be re-classified as a Regular Graduate Student upon satisfaction of such conditions as may be specified. Transfer from this category to "Regular Graduate Student" status is not automatic.

Examinations

Re-examinations in the first (comprehensive), second, or final oral examination may be allowed if recommended by the examining committee and if the Dean concurs.

Grades

All credit is expressed in quarter hours. An academic year is composed of three quarters. A student must maintain an average of 3 or better (or C on 900 courses) in his chosen discipline. Only those other courses for which a grade of 2 or better is received may be credited toward satisfaction of any degree requirement. Students who receive the grade "Incomplete" will have one quarter in which to complete the work for the course and remove this grade or it will be changed to "0" automatically at the end of the first quarter following receipt of the "In." Students needing more than one quarter to remove the Incomplete must have written permission of the instructor with the concurrence of the Dean to present to the Registrar. Continuation of study in good standing in the School of Graduate Studies is contingent on the maintenance of a minimum cumulative weighted quality point average of 2.8 in the 600, 700, 800 courses. A student whose quality point average falls short of 2.8 will be automatically placed on academic probation in which case the student must maintain a weighted quality point average greater than 3.0 on 600, 700, and 800

courses for two consecutive quarters, in order to remove the probation. A graduate student will not be eligible for graduation unless his official College transcript shows that he has an overall weighted quality point average of 2.8 on all the 600, 700, and 800 (graduate) courses that he has taken at this institution.

When a graduate student repeats a course, the last grade will be utilized to calculate the cumulative average that is used for probation, dismissal and graduation. The Graduate School discourages the retaking of courses to improve grades. Courses may be retaken only after approval of a petition to the Dean. Permission of the course instructor and department chairman is required before submission of the petition.

Grading System for the School of Graduate Studies

Grade	Description	Quality Points
For 600, 700 and 800 courses		
4	Passing, work of very good or excellent quality.	4
3	Passing, work of good quality, commendable, but not outstanding.	3
2	Passing, work of acceptable but not commendable quality. A majority of the student's grades must be above 2.	2
0	Failing, work of unsatisfactory quality.	0

For 900 courses

Cr	Credit for participation in seminar (901-2-3) or credit for conduct of research (921 or 930)	Not Computed
In	Incomplete	Not Computed
Ncr	Performance in seminars or research of such quality that no credit is given.	Not Computed
W	Withdrawn	Not Computed

Course Numbering System

Courses in the School of Graduate Studies are numbered from 600-999. Only those course numbers preceded by an asterisk are approved for credit by the School of Graduate Studies. Courses are open to all students at the discretion of the

department involved. Prior approval must be obtained through the Graduate School Office by students desiring to take graduate courses but who are not enrolled in the School of Graduate Studies.

Acceptance of Graduate Credit by Transfer

Transfer of graduate credit is never automatic; any credits transferred do not reduce the residence requirement for any advanced degree.

In the case of a prospective Ph.D. candidate entering the School of Graduate Studies with a Master's degree from another institution, the candidate shall pass an examination on his major subject and thesis during the first quarter of residence if credit for any pertinent portion of the Master's coursework (30 quarter hours maximum usually allowed) is to be applied to the Ph.D. The transfer of any course work beyond the Master's level is a matter for negotiation between the student, his Advisory Committee, his major department and the Dean. In general, no more than 60 quarter hours may be transferred toward the Ph.D., under any circumstances.

At the discretion of the Dean and the faculty of the major department, up to ten quarter hours credit toward a Master's degree may be transferred.

M.S.-M.D. degree: A maximum of 15 quarter hours may be transferred as a result of satisfactory completion of the first (or second) year of the medical curriculum, as recommended by the candidate's Advisory Committee to the Dean.

In all cases any graduate coursework to be transferred must have the final approval of the Dean.

Major Advisor

Upon admission to a degree program a major advisor is selected who will serve as chairman of the Student's Advisory Committee. It is necessary that the student confer with the department chairman or his major advisor prior to his first enrollment in graduate work. The chairman or advisor must approve, prior to the student's enrollment, any course to be counted toward a degree.

Advisory Committee

An advisory committee will have the student's major advisor as chairman. At the proper time the chairman of the committee, after consultation with the student, will suggest to the department chairman the names of additional members of the faculty to serve as members of the Student's Advisory Committee. One or two members of the committee will be from outside the student's major department. The department chairman will

recommend the committee to the Dean and upon his concurrence, the committee will then be formally appointed.

This committee will guide the student in planning his program of study and research. The student submits his program of study (coursework outline) to his Advisory Committee which will review it and indicate what modifications, if any, are necessary. This committee also will review, suggest revisions, and approve the student's plan of research (research proposal form). All programs of study and the research plans are to be reviewed by the Advisory Committee before being submitted to the Dean for approval.

The readers' copies of the student's Dissertation or Thesis will be distributed to the members of this committee, who will inform the Dean (Dissertation/Thesis approval form) whether or not they find it acceptable for the purpose of administering the Final Oral Examination. The Dissertation/Thesis approval form is due in the Dean's office six weeks prior to graduation. The Advisory Committee will have the responsibility for administering the Final Oral Examination in consultation with the Dean. The Dean will be kept fully informed of the student's progress and receive the recommendation of the committee prior to each step in the process. The Advisory Committee will have the responsibility for administering the Preliminary Examination along with the involved department. (See Degree Requirements, Doctor of Philosophy.)

Residence and Time Limit

The minimum requirement for the Doctor of Philosophy degree is three full academic years beyond the Bachelor's degree which cannot be satisfied through summer work alone. At least three full consecutive quarters immediately prior to completion of degree requirements must be spent in residence on the campus. If the student has part-time duties (employment or a teaching assistantship), the residence requirements will be increased accordingly to provide the equivalent of three quarters of full-time study in residence. All coursework and other requirements for the Doctor of Philosophy degree except the Final Oral Examination must be completed within six consecutive calendar years.

The minimum residence requirement for all Masters' degrees is one full academic year. All work credited toward a Master's degree must be completed within five consecutive calendar years.

Financial Aid

Fellowships, Traineeships, Assistantships

The fellowships and assistantships offered by the School of Graduate Studies are listed below. Further information concerning them is available from the School of Graduate Studies' office. Students should also write for the Student Financial Aids Bulletin. (See General Information.)

Medical College of Georgia Graduate Teaching Assistantships

These carry stipends of \$3,300 per calendar year and are awarded to outstanding students. Holders of these fellowships are required to enroll for not less than 12 hours per quarter. A minimum of one-third time in service is required. See section on General Information regarding waiver of out of state fees.

Requirements for Graduation

Doctor of Philosophy

The Ph.D. program is offered in the basic medical sciences: Anatomy, Cell and Molecular Biology (Biochemistry or Microbiology), Endocrinology, Pharmacology and Physiology. The courses offered by these departments have already been approved for graduate study and are listed in the departmental curricula.

1. Graduate Study

A minimum of three academic years of full-time graduate study beyond the Bachelor's degree is required.

2. Residence

A minimum of three consecutive quarters of full-time study or the equivalent in residence on this campus is required.

3. Program of Study and Research Proposal

A program of study for the Ph.D. and research plan proposed as the basis for a dissertation which has been approved by the student's Advisory Committee and the Dean is required.

4. Research Tools

The student must demonstrate a knowledge of two appropriate tools of research. He may offer two modern languages; French, German and Russian are recommended. Another language or a research technique chosen from computer programming language or mathematical methods may be substituted if it has greater relevance to the candidate's program of study and is recommended by his advisory

committee. The native language may not be used to fulfill a language requirement; foreign students may be permitted to substitute English to satisfy one foreign language requirement.

5. The Ph.D. general examination

The Ph.D. general examination is divided into two parts: (1) a First Examination and (2) a Second Examination. These examinations will be as follows:

First Examination

The First Examination is a comprehensive test over the core content of the discipline under study. It is designed to test the student's knowledge and ability to correlate the basic material presented during the first part of his graduate studies. This examination may also serve as the Final Comprehensive Examination for the master of science degree.

The First Examination may be taken after a minimum of 30 quarter hours of graduate study provided at least 10 of these hours are at the 800 level. It must be successfully passed before the student will be permitted to register for more than a total of 8 quarters of graduate study or become a candidate for a graduate degree. In the event of failure, the First Examination may be repeated once with the permission of the department chairman provided at least one additional quarter of graduate work has been completed. The student must have submitted an approved program of study (coursework outline) for the Ph.D. before eligible to take the First Examination. The First Examination will be a written test that occupies two half days or one full day. The examination will be prepared by the Student's Advisory Committee, submitted to the Graduate School for approval, and graded by the Student's Advisory Committee under the supervision of the department chairman. The results will be certified to the Graduate School by the chairman of the department involved and the student's written answers will be filed with the Graduate School.

Second Examination

This examination will test the student's understanding of his specialized field of study, his ability to apply basic information and his understanding of the literature. The committee administering the examination will define the student's field of study. At least one academic quarter must elapse after the successful completion of the First Examination and the Second Examination. It is the

responsibility of the student and his advisor to petition the Dean of the School of Graduate Studies to schedule this examination. The examination is written and usually occupies two half days or one full day. *A two hour oral examination may be substituted for one third of the written examination.* The Second Examination will be prepared, with *one outside examiner* appointed by the Dean of the School in attendance, submitted to the Graduate School for approval, and graded by the Student's Advisory Committee. The outside examiner does not participate in the examination preparation but is to see that all procedures of the examination are being conducted within the guidelines of the School of Graduate Studies.

On both examinations, it is the responsibility of the committee to recommend whether or not the student has passed the examination: a majority of the committee is needed for the student to pass. In the event of failure, this examination can be retaken once if this is recommended by the examining committee and approved by the Dean of the School of Graduate Studies and then only after at least two quarters of additional study.

6. Admission to Candidacy for the Doctor of Philosophy Degree

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 3, 4 and 5 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the Ph.D. at least three quarters before the proposed graduation date.

7. Application for Graduation

Each candidate for a graduate degree must apply for graduation at the School of Graduate Studies' office and pay the appropriate diploma fee to the Registrar.

8. Dissertation

A dissertation based on original investigation which gives evidence of independent thinking, scholarly ability and critical judgment, and indicates familiarity with research methods and techniques is required. Directions for preparation of the dissertation are available in the School of Graduate Studies' office. At least 2 months before the proposed date of graduation, three typewritten readers copies

of the complete dissertation must be submitted to the chairman of the Student's Advisory Committee. At least six weeks before the proposed date of graduation, the Dissertation Approval Form signed by the chairman and the committee indicating that the members of the committee have read the readers copy of the dissertation and find it acceptable for the purpose of examining the student will be forwarded to the Dean. The student will be held responsible, under the supervision of the chairman, for making all changes recommended by the committee.

9. Final Oral Examination

Satisfactory performance on the Final Oral Examination in which the student defends his dissertation before his Advisory Committee is required. This examination is based primarily on the dissertation and the field of knowledge that constitutes the student's major subject. This examination is open to the public and all members of the Faculty are invited to attend. After a successful Final Oral Examination, three final copies of the dissertation must be deposited with the School of Graduate Studies at least 1 week prior to graduation. Each copy must bear the approval signature of the major advisor (chairman of the Advisory Committee) and the Dean.

10. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirement of the student's major department, or the institution is required.

Additional requirements: Before a student's name can be included on the Ph.D. list, he is required to complete a survey form for the Office of Scientific Personnel of the National Research Council. The completed form is obtained from and submitted to the School office.

Doctor of Philosophy-

Doctor of Medicine

This combined degree is offered in the basic medical sciences.

1. Graduate Study and Residence

It is anticipated that the Ph.D.-M.D. program will require 6 years.

2. Program of Study and Research Proposal

Within the first three months after enrollment as a Ph.D.-M.D. candidate, an Advisory Committee will be established with his major professor as its chairman. The Advisory Committee will consist of four individuals in addition to the major professor, with a representative from at least one other department. The Committee

will plan and direct the student's program of study and research. A program of study and research plan proposed as the basis for a dissertation which has been approved by the Student's Advisory Committee and the Dean is required.

3. Research Tools

See Requirements for Graduation, Doctor of Philosophy degree.

4. The Ph.D. General Examination

See Requirements for Graduation, Doctor of Philosophy degree.

5. Admission to Candidacy for the Doctor of Philosophy Degree

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 2, 3 and 4 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree.

6. Application for Graduation

Each candidate for a graduate degree must apply for graduation and pay the appropriate diploma fee.

7. Dissertation

A dissertation based on original investigation which gives evidence of independent thinking, scholarly ability and critical judgment and indicates familiarity with research methods and techniques is required. Directions for preparation of the dissertation are available in the School of Graduate Studies office. At least four weeks before the proposed date of graduation, three typewritten copies of the completed dissertation must be submitted to the School of Graduate Studies. These are then submitted to the members of the Advisory Committee who, after reading the dissertation, will notify the Dean whether they find it acceptable for the purpose of examining the student.

8. Final Oral Examination

Satisfactory performance on the Final Oral Examination in which the student defends his dissertation before his Advisory Committee and Department is required. This examination is based primarily on the dissertation and the field of knowledge that constitutes the student's major subject. This examination is open to the public and all members of the Faculty are invited to attend. After a successful Final Oral Examination, three final copies of the dissertation must be deposited with the School of Graduate Studies. Each copy must bear the approval signatures of the Major Advisor (chair-

man of the Advisory Committee) and the Dean.

9. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department, or the institution is required.

Master of Science

The M.S. program is offered in the basic medical sciences.

1. Graduate Study

Forty-five quarter hours of graduate study beyond the Bachelor's degree is required. A minimum of thirty quarter hours must be allocated to graduate coursework in or related to the major field, at least ten of these hours to be in "800 level" courses.

2. Residence

A minimum of three consecutive quarters of full-time study or the equivalent in residence on this campus is required.

3. Program of Study and Research Proposal

A program of study and a research plan proposed as a basis of a thesis, which has been approved by the Advisory Committee and the Dean is required.

4. Research Tools

Reading knowledge of one foreign language is required. French, German, and Russian are recommended. Another language or a research technique chosen from computer programming language or mathematical methods may be substituted if it has greater relevance to the candidate's program of study and is recommended by his Advisory Committee. The native language of the candidate may not be used to fulfill a language requirement; foreign students may be permitted to substitute English to satisfy the foreign language requirements.

5. Admission to Candidacy for the Master of Science Degree

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 3 and 4 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the M.S. at least one quarter before the proposed graduation date.

6. First Examination (Departmental Option)

The First Examination is a comprehensive test over the core content of the discipline under study. It is designed to test the student's

knowledge and ability to correlate the basic material presented during the first part of his graduate studies. This examination may also serve as the Final Comprehensive Examination for the master of science degree.

The First Examination may be taken after a minimum of 30 quarter hours of graduate study provided at least 10 of these hours are at the 800 level. It must be successfully passed before the student will be permitted to register for more than a total of 8 quarters of graduate study or become a candidate for a graduate degree. In the event of failure, the First Examination may be repeated once with the permission of the department chairman provided at least one additional quarter of graduate work has been completed. The student must have submitted an approved program of study (coursework outline) for the M.S. before eligible to take the First Examination. The First Examination will be a written test that occupies two half days or one full day. The examination will be prepared by the student's Advisory Committee, submitted to the Graduate School for approval, and graded by the Student's Advisory Committee under the supervision of the department chairman. The results will be certified to the Graduate School by the chairman of the department involved and the student's written answers will be filed with the Graduate School.

7. Application for Graduation

Each candidate for a graduate degree must apply for graduation at the School of Graduate Studies' office and pay the appropriate diploma fee to the Registrar.

8. Thesis

A thesis based on original investigation is required. Directions for preparation of the thesis are available in the School of Graduate Studies' office. At least two months before the proposed date of graduation, three typewritten readers copies of the completed thesis must be submitted to the chairman of the Student's Advisory Committee. At least six weeks before the proposed date of graduation, the Thesis Approval Form signed by the chairman and the committee indicating that the members of the committee have read the readers copy of the thesis and find it acceptable for the purpose of examining the student will be forwarded to the Dean. The student will be held responsible, under the supervision of the chairman, for making all changes recommended by the committee.

9. Final Oral Examination

Satisfactory performance on the Final Oral Examination in which the student defends his thesis before his Advisory Committee is required. This examination is open to the public, and all members of the Faculty are invited to attend. After a successful examination, three copies of the final thesis must be deposited with the School of Graduate Studies at least one week prior to graduation. Each copy must bear the approved signatures of the major advisor (chairman of the Advisory Committee) and the Dean.

10. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department, or the institution is required.

Master of Science in Medical Illustration

1. Graduate Study

A designated program of study must be followed (see Curriculum).

First Year

Anm 701, 702	Gross Anatomy
Anm 813	Histology
Mil 650, 651, 652	Medical Illustration Techniques I
Mil 658	Tri-dimensional Techniques
Mil 659	Publication art Techniques
Mil 665, 666	Medical Photography
Mil 678	Surgical Techniques

Second Year

Anm 703	Neuroanatomy
Mil 750, 751, 752	Surgical Observation/Drawing
Mil 753	Printing and Publishing
Mil 758, 759, 760	Advanced Medical Photography
Mil 761, 762, 763	Medical Illustration Techniques II
Mil 764	Survey of Learning Resources
Mil 775	Presentation of Visual Information
Mil 780	Television
Mil 811	Pathology

Third Year

Mil 801	Medical Illustration—Independent Study
Mil 802	Departmental Development & Administration
Mil 804	Scientific Exhibit Design
Mil 928	Medical Illustration—Graphic Project

2. Residence

The required minimum for residence on this campus is eight quarters of full-time graduate study or the equivalent.

3. Examination

By the end of the second year of study a student will be required to pass a qualifying examination administered by the faculty of the Medical Illustration program. The Dean will be notified when and to whom these examinations are to be given, and will be informed of the results regarding the status of each student taking the examination.

4. Program of Study and Graphic Project Proposal

A program of study and an outline of the work proposed for a graphic project must be approved by the Student's Advisory Committee and the Dean.

5. Admission to Candidacy for the Master of Science Degree in Medical Illustration

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 3 and 4 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the M.S.M.I. at least one quarter before the proposed graduation date.

6. Application for Graduation

Each candidate for a graduate degree must apply for graduation at the School of Graduate Studies' office and pay the appropriate diploma fee to the Registrar.

7. Graphic Project

At least four weeks before the proposed date of graduation, a copy of the completed graphic project must be submitted to the chairman of the Student's Advisory Committee. Each member of the committee then will have the opportunity to examine the graphic project and to question the student informally concerning any portion of it with regard to knowledge and presentation of subject matter, quality of illustration techniques, choice of communication medium, content of supplementary text, etc. Any changes that the committee member considers necessary should be discussed at this time, and a list of corrections requested should be sent to the chairman of the Advisory Committee. At least two weeks before the proposed date of graduation, the Approval Form, signed by the chairman and each member of the Advisory Committee will be

forwarded to the Dean. The student will be held responsible, under the supervision of the chairman of his Advisory Committee, for making the changes recommended by the committee. At least one week prior to graduation, three copies of the graphic project in final form must be deposited with the School of Graduate Studies. Each copy must bear the approval signature of the major advisor (chairman of the Advisory Committee) and the Dean.

8. Final Oral Examination

No formal oral examination in defense of the graphic project is required. This requirement should be satisfied as stated in 7 above.

9. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department or the institution is required.

Master of Science-

Doctor of Medicine

This combined degree is offered in the basic medical sciences.

1. Graduate Study

Forty-five quarter hours of graduate study are required of which a maximum of 15 quarter hours may be transferred as a result of satisfactory completion of the 1st (or 2nd) year of the medical curriculum. A minimum of 15 quarter hours must be allocated to advanced coursework (800 series) in or related to the major field. Fifteen additional quarter hours may be allocated to Seminar (901, 902, and 903), problem (921) and research (930). Coursework programs will be arranged on an individual basis.

2. Residence

One full academic year in residence as a graduate student is required. It is anticipated that the minimum time for the combined M.S.-M.D. degree would be 4½ years.

3. Program of Study and Research Proposal

Within the first three months of his enrollment as a M.S.-M.D. candidate, an Advisory Committee will be established with his major professor as its chairman. The Advisory Committee should consist of approximately four individuals in addition to the major professor with at least one representative from another department. This committee will plan the student's course of study. A program of study and a research plan, which will serve as the basis for a thesis, should be recommended by the candidate's Advisory Committee and approved by the Dean.

4. Research Tools

A research tool is defined as (a) reading knowledge of one foreign language, (b) demonstrated ability to communicate in a computer language or (c) ability to apply advanced statistics to a research program. The candidate must fulfill one of these requirements as suggested by his Advisory Committee and approved by the Dean of the School of Graduate Studies. A waiver of this requirement will also be entertained by the Dean if sufficient justification is offered by the candidate's Advisory Committee.

5. Admission to Candidacy for the Master of Science Degree

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 3 and 4 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the M.S. at least one quarter before the proposed graduation date.

6. First Examination (Departmental Option)

The First Examination is a comprehensive test over the core content of the discipline under study. It is designed to test the student's knowledge and ability to correlate the basic material presented during the first part of his graduate studies. This examination may also serve as the Final Comprehensive Examination for the master of science degree.

The First Examination may be taken after a minimum of 30 quarter hours of graduate study provided at least 10 of these hours are at the 800 level. It must be successfully passed before the student will be permitted to register for more than a total of 8 quarters of graduate study or become a candidate for a graduate degree. In the event of failure, the First Examination may be repeated once with permission of the department chairman provided at least one additional quarter of graduate work has been completed. The student must have submitted an approved program of study (coursework outline) for the M.S. before eligible to take the First Examination. The First Examination will be a written test that occupies two half days or one full day. The examination will be prepared by the Student's Advisory Committee, submitted to the Graduate School for approval, and graded by the Student's Advisory Committee under the supervision of the department chairman. The results will be

certified to the Graduate School by the chairman of the department involved and the student's written answers will be filed with the Graduate School.

7. Thesis

A thesis based on original investigation is required. Directions are available in the School of Graduate Studies' office. At least two months before the proposed date of graduation, three typewritten readers copies of the completed thesis must be submitted to the chairman of the Student's Advisory Committee. At least six weeks before the proposed date of graduation, the Thesis Approval Form signed by the chairman and the committee indicating that the members of the committee have read the readers copy of the thesis and find it acceptable for the purpose of examining the student will be forwarded to the Dean. The student will be held responsible, under the supervision of the chairman, for making all changes recommended by the committee.

8. Final Oral Examination

Satisfactory performance on the Final Oral Examination in which the student defends his thesis before his Advisory Committee is required. This examination is open to the public, and all members of the Faculty are invited to attend. After a successful examination, three copies of the final thesis must be deposited with the School of Graduate Studies. Each copy must bear the approval signatures of the major Advisor (chairman of the Advisory Committee) and the Dean.

9. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department or the institution is required.

Master of Science in Oral Biology

1. Graduate Study

Forty-five quarter hours to graduate study beyond the Bachelor's degree is required. A minimum of fifteen quarter hours must be allocated to advanced coursework (800 series) in or related to the major field. No course of the 600-700 series or an equivalent course, nor any course that the student used to satisfy any requirement for a professional degree or an equivalent course may be used to satisfy this requirement. Thirty quarter hours of the required forty-five are to be allocated to seminars (901, 902, and 903), problems (921) and research (930) for the thesis.

2. Residence

Two full academic years in residence is required.

3. Program of Study and Research Proposal

A program of study and a research plan proposed as a basis of a thesis, which have been approved by the Advisory Committee and the Dean is required.

4. Research Tools

Reading knowledge of one foreign language is required. French, German, and Russian are recommended. Another language or a research technique chosen from computer programming language or mathematical methods may be substituted if it has greater relevance to the candidate's program of study and is recommended by his Advisory Committee. The native language of the candidate may not be used to fulfill a language requirement; foreign students may be permitted to substitute English to satisfy the foreign language requirement.

5. Admission to Candidacy for the Master of Science Degree

A student will be admitted to candidacy for this degree by the Dean of the School of Graduate Studies when he has met requirements 3 and 4 for this degree. A student may take various courses after admission to the School of Graduate Studies, but there is no commitment that these courses will be credited toward a degree until he is admitted to candidacy for an advanced degree. A student must be eligible for candidacy for the M.S. at least one quarter before the proposed graduation date.

6. First Examination (Departmental Option)

This examination is a comprehensive test over the core content of the discipline under study. It is designed to test the student's knowledge and ability to correlate the basic material presented during the first part of his graduate studies.

The First Examination may be taken after a minimum of 30 quarter hours of graduate study provided at least 10 of these hours are at the 800 level. It must be successfully passed before the student will be permitted to register for more than a total of 8 quarters of graduate study or become a candidate for a graduate degree. In the event of failure, the First Examination may be repeated once with the permission of the department chairman provided at least one additional quarter of graduate work has been completed. The student must have submitted an approved program of study (coursework

outline) for the M.S. before eligible to take the First Examination. The First Examination will be a written test that occupies two half days or one full day. The examination will be prepared by the student's Advisory Committee, submitted to the Graduate School for approval, and graded by the Student's Advisory Committee under the supervision of the department chairman. The results will be certified to the Graduate School by the chairman of the department involved and the student's written answers will be filed with the Graduate School.

7. Application for Graduation

Each candidate for a graduate degree must apply for graduation at the School of Graduate Studies' Office and pay the appropriate diploma fee to the Registrar.

8. Thesis

A thesis based on original investigation is required. Directions for preparation of the thesis are available in the School of Graduate Studies' Office. At least two months before the proposed date of graduation, three type-written readers copies of the completed thesis must be submitted to the chairman of the Student's Advisory Committee. At least six weeks before the proposed date of graduation, the Thesis Approval Form signed by the chairman and the committee indicating that the members of the committee have read the readers copy of the thesis and find it acceptable for the purpose of examining the student will be forwarded to the Dean. The student will be held responsible, under the supervision of the chairman, for making all changes recommended by the committee.

9. Final Oral Examination

Satisfactory performance on the Final Oral Examination in which the student defends his thesis before his Advisory Committee is required. This examination is open to the public and all members of the Faculty are invited to attend. After a successful examination, three copies of the final thesis must be deposited with the School of Graduate Studies at least one week prior to graduation. Each copy must bear the approved signatures of the major Advisor (chairman of the Advisory Committee) and the Dean.

10. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department, or the institution is required.

Master of Health Education

The M.H.E. program is offered in Medical Technology.

1. Graduate Study

60 quarter hours beyond the Bachelor's degree are required. 20 quarter hours are spent in discipline-oriented instruction; 20 quarter hours of pedagogic instruction including a teaching practicum; and 20 quarter hours of related electives.

2. Residence

A minimum of three quarters of full-time study or the equivalent in residence on this campus is required.

3. Program of Study

A program of study which has been approved by the Advisory Committee and the Dean is required.

4. Application for Graduation

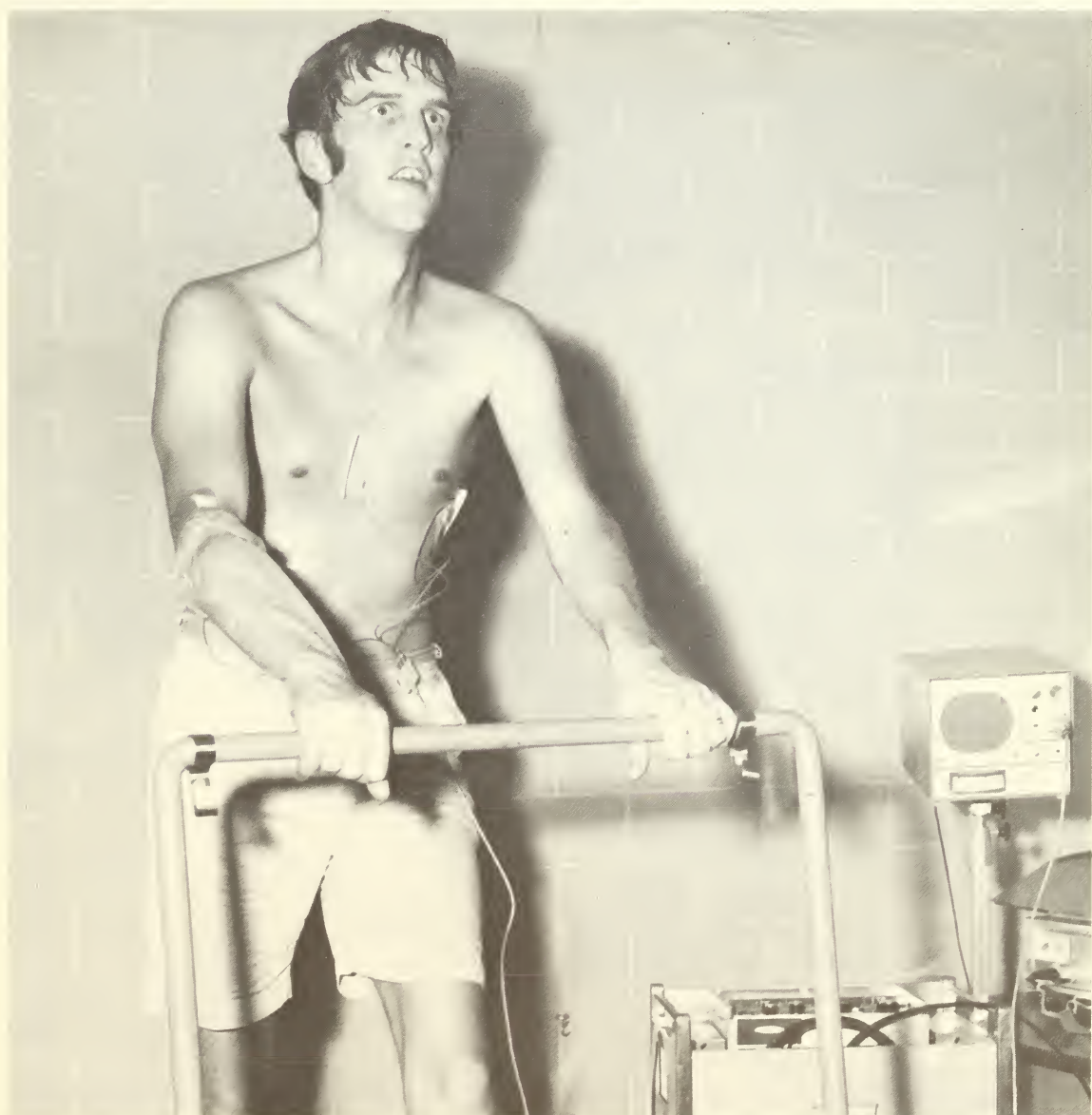
Each candidate for a graduate degree must apply for graduation at the School of Graduate Studies Office and pay the appropriate diploma fee to the Registrar.

5. Satisfactory Fulfillment

Satisfactory fulfillment of any additional requirements of the student's major department or the institution is required.

Director—Dr. James B. Mathews
Associate Directors—Dr. Richard E. Pogue
Dr. Geoffrey E. King

Health Systems and Information Sciences



Program in Health Systems and Information Sciences

The Program in Health Systems and Information Sciences encompasses the academic activity of faculty in the Division of Systems and Computer Services. Disciplines represented within the Program include health systems engineering, management and information sciences, computer science, biostatistics and biomedical engineering. Current emphasis is on meeting the growing needs of other academic programs within the College for courses in these disciplines. It is anticipated that the Program will soon offer degrees to health professionals who desire in-depth training in the health systems and information sciences to better prepare them for their role within the health care system.

The Division of Systems and Computer Services engages in service programs in the management, information, statistical, biomedical engineering and computer sciences in support of education, research, health services and administration at the Medical College of Georgia. The Director of the Division is responsible for coordinating all computer activities on campus, and the Division

operates several computer facilities used by faculty and students. The Division's philosophy rests on the premise that an integrated program combining education, research and service will promote attainment of the goals of the College for these fields of study.

Program faculty and Division professional staff engage in formal academic teaching; supervise student practica and serve on thesis advisory committees; conduct training courses, seminars and electives for faculty, staff and students; participate in joint programs with Augusta College and Georgia Institute of Technology; and engage in intramural and extramural research projects in the basic and clinical sciences, and in health facilities, health manpower and clinical services planning and operation. As a professional staff resource they provide management and information systems development services; computer services; engineering services including design, construction and maintenance of specialized equipment of an electronic and mechanical nature; and consultative services in the biostatistical, biomedical engineering, management and computer sciences.

Courses offered by the Program in Health Systems and Information Sciences are listed in the Course Descriptions Section of this Catalog.

Dean—Dr. Curtis H. Carter

Associate Dean for Curriculum—Dr. Lois Ellison

Associate Dean for Special Programs—Dr. Russell Moores

Anatomy—Dr. Dale E. Bockman, Chairman

Anesthesiology—Dr. Zachariah W. Gramling, Chairman

Cell & Molecular—Dr. Edward Bresnick, Chairman

Dermatology—Dr. J. Graham Smith, Chairman

Endocrinology—Dr. Virendra B. Mahesh, Chairman

Family Practice—Dr. William E. Lotterhos, Chairman

Medicine—Dr. Joseph P. Bailey, Jr., Acting Chairman

Neurology—Dr. Joseph B. Green, Chairman

OB-GYN—Dr. William A. Scoggin, Chairman

Ophthalmology—Dr. Malcolm N. Luxenberg, Chairman

Pathology—Dr. A. Bleakley Chandler, Chairman

Pediatrics—Dr. Alex F. Robertson, Chairman

Pharmacology—Dr. Raymond P. Ahlquist, Chairman

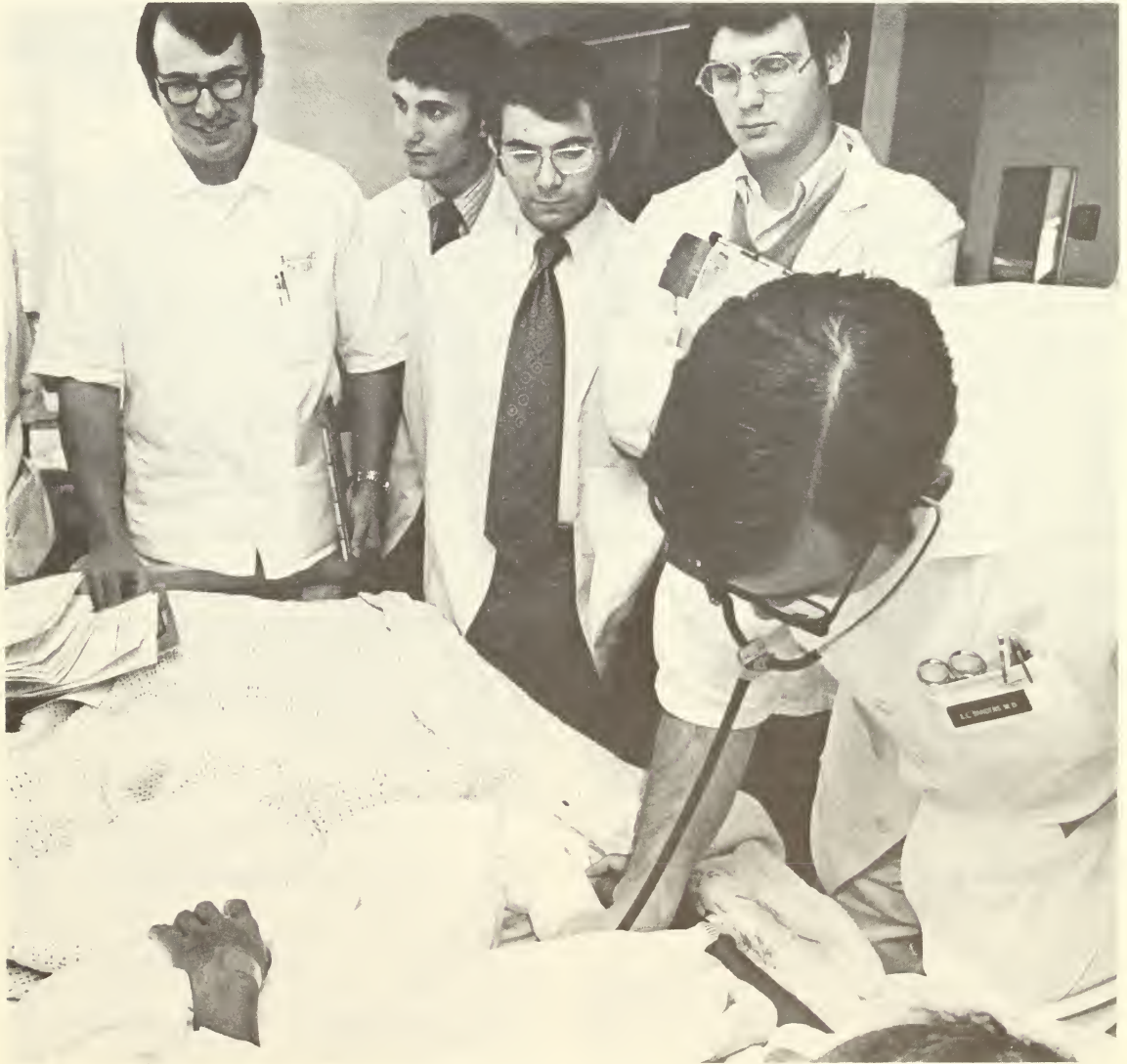
Physiology—Dr. Robert C. Little, Chairman

Psychiatry—Dr. E. James McCranie, Chairman

Radiology—Dr. Winford H. Pool, Chairman

Surgery—Dr. Arlie R. Mansberger, Chairman

School of Medicine



School of Medicine

The physician occupies a vital and honored position in today's increasingly sophisticated and complex society. Successful completion of requirements in the School of Medicine leads to the M.D. degree and a career dedicated to the maintenance of health and the alleviation and cure of disease. Opportunities include clinical practice, teaching and work in research.

Accreditation

The School of Medicine is accredited by the Association of American Medical Colleges in conjunction with the American Medical Association.

Admission Requirements

Policy

Admission policies are established by the Board of Regents of the University System of Georgia as the responsibility of the Admissions Committee, with consideration for the special requirements of the medical curriculum. The Committee is responsible for the acceptance of all students entering the first, second or third year classes. Admission with advance standing to the fourth year class is not ordinarily possible.

The applicant for admission to the School of Medicine is considered on the basis of academic ability and achievement, scores on the Medical College Admission Test, and assessment of individual potential for meeting society's health care needs as evaluated by the premedical adviser, two personal references, and Medical College faculty.

The Admissions Committee makes a searching effort to appraise the potential of individual applicants for accomplishment in medicine, both through the academic record and personal qualifications, as best they can be assessed. Although an analysis of factors which predict success is most difficult, the Committee feels that it must make an effort to evaluate the characteristics of "the track record" in terms of the individual's academic accomplishments and growth as an individual.

Academic Requirements

At least three years of work in an approved college.

The minimum requirement is 90 semester hours or 135 quarter hours. The three year college course, in both quality and quantity, must be acceptable as the equivalent of the first three years

leading to the degree of Bachelor of Science or Arts in an approved college of arts and sciences. Preference is given to applicants who will have completed their baccalaureate degree.

An applicant may major in the discipline of his choice; however, he must complete the following:

Biology

One academic year of general biology or zoology (with laboratory)

Chemistry

(a) One academic year of general inorganic chemistry (with laboratory). Inclusion of quantitative chemistry is recommended.

(b) One academic year of advanced chemistry, two quarters or one semester of which must be organic chemistry with laboratory. The other quarter or semester may be fulfilled by any advanced chemistry course (laboratory not necessary).

Physics

The number of academic terms of Physics (with laboratory) necessary to cover mechanics, heat, light, sound, electricity and magnetism.

English

One academic year of English or whatever portion of the academic year is required for the baccalaureate degree in an accredited college or university.

Note: One academic year equals three quarters, two semesters, or one semester and two quarters.

Premedical Electives

An understanding of man, contributory to the wise and solid practice of medicine, can be derived from many disciplines. Students are encouraged to pursue in-depth study in disciplines which are of real interest to them in addition to the required courses. The selection of the areas for in-depth study is not of primary concern to the Committee; many students select natural science as a primary emphasis and others select physical sciences or the humanities. Elective courses may be used to broaden the background of students applying to medical school.

Medical College Admission Test (MCAT.)

Every applicant must take the Medical College Admission Test, preferably in the spring preceding the submission of his application but no later than the fall. The test is given twice yearly at most senior colleges. Information concerning it may be obtained from the premedical advisor or from Medical College Admission Test, The American College Testing Program, P.O. Box 168, Iowa City, Iowa 52240.

Physical Examination

A satisfactory health report must be submitted to the Office of Student Affairs.

Personal Interviews

Interviews with members of the Medical College faculty are held by invitation of the Admissions Committee after review of completed application. Such interviews are ordinarily required prior to acceptance.

References

An evaluation of the applicant is required from two persons, one of whom should be an individual active in one of the health professions.

In addition, an evaluation from the applicant's premedical advisor is required. Recommendations from other than these required sources are discouraged.

Application Procedure

The School of Medicine participates in the American Medical College Application Service (AMCAS), which means that application forms are issued by AMCAS upon receipt of an Application Request Card from the applicant. The Request Cards can be obtained from the Office of Student Affairs, Medical College of Georgia, or from premedical advisors on most college campuses. The MCG deadline for filing applications (postmarked) with AMCAS for the entering class of September is the previous December. Early application is urged by the Admissions Committee. No application fee in addition to the AMCAS fee is required.

Irregular Students

Faculty members holding doctorates in basic medical or biological sciences who wish to qualify for careers in full-time academic or clinical research may enroll as irregular students in special instances.

Requirements for admission as an irregular student are available from the Office of Student Affairs. Before final acceptance as an irregular student, applicants must obtain approval from the Dean of the School of Medicine for the proposed course of study.

The College assumes no responsibility for future curriculum changes which might alter such programs.

Admission with Advanced Standing

Applicants in good standing in accredited two or four year medical schools will be considered for admission to the appropriate advanced level of the

curriculum when student space permits. Details should be obtained from the Office of Student Affairs.

Financial Aid

An application form on which to apply for any assistance program administered by the College may be secured by writing the College Financial Aid Office.

Curriculum

During the first year (Phase I) the students study the structure and function of the human body through courses in anatomy, histology, embryology, cell and molecular biology, neurosciences, and physiology. Courses in humanities and behavioral sciences relate to the social, ethical and behavioral aspects of the individual. Microbiology and introduction to pathology are included in the first year curriculum. Contact with patients begins with physical diagnosis during the winter quarter of the first year.

The second year (Phase II) points toward clinical medicine with courses in pathology and pharmacology, genetics, preventive medicine and public health, and laboratory medicine. Lectures in the "clinical sciences" provide the didactic basis for the major clinical blocks during the clinical years. Courses in radiology, anesthesiology, neurology and psychiatry are also given during the spring quarter. Interdepartmental cooperation and clinical relevance are stressed throughout the first two years.

In addition to the "core curriculum" two afternoons a week are assigned for electives during part of both the first and second years.

During Phase III of the curriculum, the student is required to take 72 weeks of Clerkships including five basic clerkships to provide adequate fundamental clinical grouping. The Department of Medicine is responsible for the twelve week medical clerkship. The eight week surgical clerkship is taught by the Department of Surgery, including the subspecialty divisions and the Department of Anesthesiology. In addition, a six week clerkship is taught by the Department of Obstetrics and Gynecology, a six week clerkship by the Pediatrics and a four week clerkship by the Department of Psychiatry.

The balance of the third and fourth years is filled by elective courses which can be advanced in the various clinical departments, including Medicine, Surgery, Obstetrics and Gynecology,

Psychiatry, Neurology, Pediatrics, Dermatology, Radiology, Anesthesiology, Ophthalmology and Family Practice, as well as electives in basic sciences. Research electives are available. Electives may also be taken in other institutions and community hospitals upon approval by the appropriate department of the School of Medicine and the faculty Curriculum Committee.

The biological sciences and clinical sciences are taught by various departments of the School of Medicine.

Close affiliation agreements are now being worked out with major community hospitals in the state of Georgia. Part of the clinical core curriculum may be taken at one of these hospitals.

Curriculum Bulletin

The courses offered are not limited to those listed in the catalog, and new courses are frequently introduced into the curriculum. It is possible that some of the courses listed may be withdrawn from the curriculum with the approval of the Curriculum Committee and the Dean of the School of Medicine. Course descriptions can be found in the Phase III Curriculum Bulletin, a copy of which may be obtained by writing to the Curriculum Office, School of Medicine.

Scholarship and Promotion

Promotion of students from one year to the next is dependent upon the satisfactory completion of each year's work. Promotions are considered on the basis of recommendations by individual instructors, on department evaluations and on students' total records, including performance on Parts I and II of The National Board Examinations.

The faculty has the obligation and right to determine the methods of evaluation by performance or by examination and to evaluate each student individually. Comprehensive oral examinations may be scheduled at the end of the second and fourth years on the advice of the Promotion Board.

Classification of Students

In the School of Medicine, students are classified as first year, second year, third year or fourth year.

Criteria for Promotion and Graduation

I. Required Courses

- A. In order to be promoted or graduated, a student must have a grade of 2 or better in every required course. See following section for interpretation of grades, 4, 3, 2, 1 and 0.
- B. A grade of 1 in any required course necessitates satisfactory completion of remedial work within a specified time to raise the grade to a passing grade, such work to be determined by department giving the grade.
- C. In Phases I and II, if a student has grades of less than 2 in as much as 25% of the year's work or 0 in 10%, the Promotions Committee will decide whether,
 - (1) Remedial work is possible
 - (2) To recommend the student repeat all or part of the year's work
 - (3) To recommend the student be dismissed from school.

The percentage of the academic year's work will be determined by the registrar's office based on a curriculum inventory of the total number of hours.

In Phase III, in the case of a required clerkship where it is possible to repeat the course without repeating the entire year, a 0 must be removed by repeating the clerkship (even if less than 10% of year's work).

II. Electives

At the end of Phases I, II and III, a student must have a grade of 2 or better in each elective course taken to satisfy the prescribed number of elective hours required for the phase in which the student was enrolled. A grade recorded as "pass" is equivalent to a 2 or better. If a student receives a grade of 1 or 0 or "fail" in an elective and does not either repeat the elective or do remedial work to raise the grade, the student will receive no credit for the elective. The student will have to take additional electives and pass them with a grade of at least 2 or "pass" in order to satisfy the prescribed number of elective hours.

For graduation a student must have a cumulative (or total) elective average for Phases I, II and III of 2.0 or better based on all elective grades (both passing and failing grades). The total elective average is an internal calculation and does

not become part of the students permanent record. Calculation of a total elective grade for Phases I, II and III before graduation will only be necessary for students with elective grades of 1 or 0 on their record.

III. Requirements on National Board Examination, Parts I and II

A student must satisfy requirements for the National Board Examination, Parts I and II, for A and B listed below:

- A. Promotion from Phase II to Phase III—Part I
- B. Graduation—Part II

Interpretation of Grades

- 4—Outstanding
Superior performance.
- 3—Good
Commendable performance, work of good quality.
- 2—Satisfactory
Acceptable performance, a definitely passing grade with no reservations.
- 1—Marginal
A grade that indicates this student has not met the minimal performance in this area and that additional experience and demonstration of learning will be required if this subject is specifically required for graduation. No credit.
- 0—Not passing
Failing and unsatisfactory work.

OTHER PROGRAMS AND ADMINISTRATIVE PROCEDURES

Student Responsibilities & Judicial Procedures

Student discipline at the college is the responsibility of the President and his administrative staff. Students will be liable for disciplinary action should they fail to act in a manner of credit to themselves, the college and the medical profession.

Honor System

Every medical student is expected to maintain a high degree of personal integrity and honor, not only during his years on the campus, but also throughout his practice as a physician. In recognition of this obligation, each student is expected to subscribe to an honor code established by the

students of previous years. The Honor Court is composed of twelve regularly enrolled students, with four members from each the fourth, third, and second year classes. A copy of the Honor Code is distributed to freshmen during orientation.

Student Affairs Committee

The Student Affairs Committee of the School of Medicine acts as an advisory committee to the Dean in student and faculty relations. The Committee consists of the chairman to be nominated and appointed in accordance with the policies for General Faculty Committees; one faculty member to be elected by the students from each of the four classes; Associate Dean for Curriculum, ex officio; Director of Student Affairs, ex officio; the student members shall include the President of each class, the President of the Student American Medical Association and the School of Medicine representative to Organization of Student Representatives of the AAMC.

Alpha Omega Alpha

A chapter of this honorary scholastic fraternity in medicine was established at the College in 1926. Each year students of the third and fourth year classes are nominated on the basis of both peer and faculty recommendations and academic excellence. Elections are held by active members of the chapter.

Special Programs

Guest Lecturers

Throughout the year, distinguished physicians and scientists from other schools and from overseas visit the various departments of the Medical College of Georgia and participate in the departmental teaching programs.

Distinguished lecturers address the whole school each year.

In addition, the following special lectureships are held: (1) The Aaron Brown Memorial Lecture, sponsored by Phi Delta Epsilon Fraternity; (2) The Alpha Omega Alpha Honor Fraternity sponsors two lectures annually (Student Honors Day occurs with the spring lecture); (3) The Sydenstricker Lecture, in honor of the late Dr. Virgil P. Sydenstricker, a distinguished member of the faculty for many years, sponsored by the Student American Medical Association.

Research Fellowships

The Medical College of Georgia has a limited number of summer research fellowships in which students work closely with faculty investigators on specific problems.

This is an elective, but an important component of the students' educational experience, allowing them to participate in research and to develop an understanding of the methods, philosophies and problems involved.

Interested students should contact departments directly.

Affiliated Hospitals Program

The School of Medicine has developed a number of affiliations with community hospitals around the state of Georgia. These affiliations are aimed primarily at widening the educational experiences of our students by providing them with educational opportunities in general medicine and the specialty fields at the affiliated community hospitals. By participating in these training programs the student will gain experience, insight, and perspective into the practice of high quality medical care as it exists in private practice and these community hospitals.

The required clerkships in clinical medicine are organized to make optimal use of the clinical facilities in the Augusta area. These clerkships accordingly are situated in the teaching hospital, the University Hospital (city-county hospital), the Veterans Administration Hospital and the Georgia Regional Hospital.

Elective programs in community hospitals and the family practice preceptorships are available to students who have completed the nine months of required clerkships in the Phase III Curriculum. A total of four months of elective training may be spent in community hospitals or off-campus preceptorships. Electives are available in Savannah at the Memorial Medical Center; in Columbus at the Medical Center; the Medical Center of Central Georgia in Macon; and the county hospitals located throughout the state. In Augusta, electives are available at the University Hospital, at the Fort Gordon Army Hospital, and the Veterans Hospitals.

Experimental Curriculum

A course with the objectives of developing in students the attitudes and skills necessary for interdisciplinary team health care delivery will begin in the fall of 1975. This project is the

outgrowth of a more extensive experimental health team curriculum which was evaluated from 1973-74. The course will consist of a review of existing health care delivery systems, an analysis of team health care delivery, an assessment of the process of team development, and direct patient care in delivery systems where team care is practiced.

Participants will be selected at random from volunteers.

Postdoctoral Training Programs

The college has internship and residency programs which have been approved by the Council on Medical Education and Hospitals of the American Medical Association. The teaching hospital of the college, Eugene Talmadge Memorial Hospital, is the parent hospital for these programs, but integration and/or affiliation with the University Hospital, Augusta; the Veterans Administration Hospitals, Augusta; Memorial Hospital, Savannah; Georgia Regional Hospital, Augusta, and the Medical Center of Central Georgia, Macon, may be included. A brief outline of the various training programs is given below. Applicants seeking residency training may apply either to the department chairman or to the Director of Hospital and Clinics.

Internships

The medical internship is a straight service consisting of eight months on the general medical wards, one month in the emergency room (at University Hospital) and three months elective.

Obstetrics and Gynecology

Professor and Chairman: William A. Scoggin, M.D.

Four rotating internships are offered by the Department of Obstetrics and Gynecology. The internships have a mandatory assignment of at least four months of Obstetrics-Gynecology and four months of Medicine. For those interns who elect to continue their training in this department, the internship serves as the first year of our four year program in Obstetrics and Gynecology.

Pathology

Acting Chairman: J. Graham Smith, Jr., M.D.

The straight internship in Pathology is offered to recent graduates whether or not they have decided about later training. The intern's experience is like that of a first-year resident. His

study of human disease is excellent preparation for any clinical field. If he decides to continue in Pathology, it is a year saved that can be spent later in special research training. An elective in one of the clinical disciplines may be arranged. The Internship program is in the Medical College teaching hospital and may include elected periods in the Medical College affiliated University Hospital.

Pediatrics

Professor and Chairman: Alex F. Robertson, M.D.

Six straight pediatric internships are available. The year is spent on the Pediatric inpatient and newborn services at Talmadge Hospital and in the outpatient clinics and emergency room of University Hospital.

Surgery

Ten straight internships in Surgery are offered. These ten internships in the General Surgery "core" rotations include positions for those graduate trainees who have career goals in the Specialties of Thoracic Surgery, Neurosurgery, Orthopedic Surgery, Plastic Surgery, Urology and Otolaryngology as well as in General Surgery.

The "core" program is based on a philosophy that Surgery is a "discipline of medicine" and that Surgeons should be "internists who operate."

Rotations include general surgery, emergency medicine, acute cardiology, respiratory care, and elective time in a broad spectrum of disciplines.

Flexible Internships

The flexible internship is primarily intended for those individuals who have not decided upon a residency program or whose training needs are not best provided by a single departmental program. It allows maximum latitude of choice in the content of the first post-graduate year of training since the only specific requirements are four months of internal medicine and one month of emergency room. Such latitude will require special counseling for each applicant to ensure that the program selected best suits his long range plans. As such, the flexible internship fulfills requirements for Georgia State Licensure and will allow adequate preparation for entry into any of the residency programs of the Medical College.

Residencies

Anesthesiology

In conformance with the continuum in anesthesiology specialty training as promulgated by the AMA and the ABA, this department offers two programs for specialty training in anesthesiology.

1. a. A basic year of training with rotations on other specialties and subspecialties such as medicine, pediatrics, emergency room, cardiology, etc.
- b. Two years of clinical anesthesiology. This time would be spent in the O.R., respiratory therapy, intensive care, obstetrics, etc., covering the usual range of clinical anesthesiological experience.

For the M.D. coming directly from medical school into anesthesiology, the (a) and (b) mix can be arranged in any fashion to fit the needs and desires of the candidate and departmental chairman. That is, six months of (a), followed by two years of (b), and finally six months of (a), or any other combination could be followed.

For the M.D. coming into anesthesiology from practice or other areas of medicine, the (a) requirements could be satisfied by one year of satisfactory rotation in other specialties prior to admittance into the anesthesiology program.

2. A four year program consisting of (a) and (b) above plus (c), one year of optional training in an area of research, in clinical anesthesia that is more advanced and specialized than the usual experience gained during the 24 months of clinical anesthesia, or in a basic science or a clinical discipline other than anesthesiology.

Dermatology

The residency training program in Dermatology is for three years with emphasis on both clinical and basic scientific aspects of cutaneous medicine. Patients are seen in outpatient clinics at the Talmadge, University, and Veterans Administration Hospitals. There are ten inpatient beds at the Talmadge Hospital and beds are available at the V.A. Hospital on a "need basis." Training is graduated, with increased responsibility in the care of patients accruing throughout the program. Regular weekly conferences include Dermatology Grand Rounds, histopathology conference, basic

science seminar, journal club and didactic conferences. In order to develop the critical capacity necessary to evaluate advances in Dermatology, residents rotate through the research laboratories for periods of two to twelve months full-time during their training and are required to complete a clinical or laboratory research project during the three year training period.

Family Practice

The Department of Family Practice in the School of Medicine was established July of 1972. Resident and student training programs became operational July of 1973.

Objectives of this department are: (1) to educate and train physicians in the specialty of family medicine; (2) to equip them with the knowledge and skills necessary to provide high quality, continuous, comprehensive, personalized care to individual family members and to the family unit as a whole; (3) to orient training not only to the care of the ill but also in health maintenance and disease prevention; (4) to function as a leader of the health team which focuses on the family as the basic unit of society, emphasizing continuous, comprehensive care; (5) to emphasize the recognition and understanding of sociobehavior problems in health and disease in the context of the family unit; (6) to stimulate the interest and involvement in clinical research evaluation and peer review of the medical care process, and a search for improved methods of health care delivery; (7) to emphasize the importance of continuing education for all physicians.

Training is centered in and around the Family Practice Center (Model Family Practitioner's Office). Here medical students, physician's assistant students, nursing students, residents in family practice and others participate in delivery of health care to families and their individual members.

As they progress through their three years of training, residents in family medicine spend an increasing portion of their time in the Family Practice Center, increasing the number of families under their care. Associated with this training they receive specific training in internal medicine, pediatrics, surgery, obstetrics and gynecology, psychiatry, dermatology, surgery, orthopedics, emergency room care and other specialties and subspecialties.

Internal Medicine

A complete post-graduate training program in Internal Medicine and its subspecialties is offered; all of the training required for qualification for the American Board of Internal Medicine and each of

the Subspecialty Boards can be obtained. The internship and residency program is integrated with the University Hospital and the Veterans Administration Hospital. Fellowships are available in cardiology, cardiovascular research, hematology, infectious diseases, endocrinology and metabolism, gastroenterology, renal diseases, rheumatology, pulmonary disease, clinical nutrition and medical oncology. Teaching rounds and conferences are held daily for house officers and students.

Neurology

A fully approved three year residency in Neurology combines the facilities of Talmadge, University and Augusta VA hospitals. The first year is spent on the wards and in the clinics, with a rotation on Neurosurgery. The second year consists of Pediatric Neurology, and rotations of Neuroradiology and Nueropathology. The final year as a senior resident offers a wide choice of electives, including opportunities in Neuropsychology, Neurophysiology, Neurochemistry, EEG, EMG, etc. The resident may participate in the community outreach programs sponsored by the Department of Neurology.

The goal of the Neurology residency program is to train clinically competent neurologists who will be equipped to make an original contribution to the knowledge of the nervous system, in either an academic setting or in clinical practice. Three residents are accepted each year.

A training program in Pediatric Neurology is offered under the joint auspices of Pediatrics and Neurology, and supervised by three full-time faculty members of the section of Pediatric Neurology (Paul R. Dyken, M.D.). Two types of programs are offered: one year of fellowship (PL3) or a 5 year program (including internship) combining Pediatric, Adult Neurology and Pediatric Neurology training which meets the specialty board requirements.

Obstetrics and Gynecology

A four-year residency program is offered. Residents spend a minimum of three years in the department with progressive responsibility each year that fulfills the requirements for Board eligibility. One year may be spent outside the department and might include three month rotations through urology, endocrinology, medicine, general surgery, pathology and research. The program is academically oriented and designed to prepare the resident for clinical practice. Residents are expected to participate in student teaching and assist on research projects. The residency program rotations include both the Talmadge Hospital and the University Hospital.

Ophthalmology

A three year residency program in ophthalmology is offered with training at the teaching hospital with rotations at University Hospital and the Veterans Administration Hospital. Training in all types of ophthalmic surgery is included. A basic science course in ophthalmology is part of the residency program.

Pathology

The training program offers one year of internship and up to five years of residency. The resident physician participates in the student teaching program, in the department's autopsy, surgical pathological and clinical pathological services; periods of part-time or full-time research are available to those who want them. Places are available to persons preparing for academic pathology or the practice of pathology, and to those who may desire a year or more of training in pathology in preparation for another discipline. Individualized programs that satisfy Board requirements and the individual's career goals are arranged in the Medical College teaching hospital and may include elected periods in the Medical College affiliated University Hospital.

Pediatrics

The pediatric residency is of two years duration and together with the internship forms a coordinated three year program which fulfills the requirements for Board eligibility. Additional training is available in many of the subspecialty areas of pediatrics.

Psychiatry

The Department has a fully approved three year residency program in psychiatry. Detailed information about the program may be obtained on request.

Radiology Residencies

Diagnostic Radiology

A four year residency in general Diagnostic Radiology is offered. The first year may be spent in a flexible program or as a straight first year residency of another program. Three years are spent with four month rotations in Neuro-radiology, Nuclear Medicine, Special Procedures, Pediatric Radiology and twenty months in general Diagnostic Radiology. Emphasis is on progressive independence of the resident as his foundation is strengthened. There are 50,000 exams per year in the present facility of all varieties. During 1975, an outpatient section will be opened.

Radiation Oncology

A four year approved residency program is available. The first year is spent in a flexible first year program or a straight program of another specialty. During the three years experience is gained in treatment planning, the basic physics of Radiation Oncology, its radiobiological effects and the use of various modalities of treatment as it relates to the general problem of oncology. The use of apparatus of different energies is utilized in the program. An area radiation therapy program greatly strengthens the variety of patients treated. Eight hundred new patients are treated each year.

Surgery Residencies

General Surgery

An integrated program which includes rotations through Talmadge Hospital (referred surgery), University Hospital (trauma and referred) and the Veterans Administration Hospital. The program is four or five years in length following the internship. The length of the five year time tract is designed for those who wish to pursue a career in academic surgery and requires a year of research experience. Laboratory experience is not required in the four year program.

Five residents are trained at each level beyond the internship. The program is not pyramidal. Competent performance is essential for reappointment. The program is based on a philosophy that surgery is a discipline of medicine and that surgeons are "internists who operate." Anatomy, physiology, and biochemistry and the correlation of basic science in clinical problems is constantly stressed in a wide variety of daily rounds, teaching conferences and in grand rounds.

Neurosurgery

A five year training program with a prerequisite of one year internship of choice and one year general surgery or one straight surgical internship, five residents. Training includes clinical neurosurgery and microsurgery supplemented by on-service participation in neuroradiology and weekly conferences in neuropathology and off-service experiences in clinical neurology and combined neuroanatomy and neurophysiology as well as basic research. The teaching hospital, the University and Veterans Administration Hospitals participate in the training program. By special arrangement, the residents may receive graduate school credit while actively pursuing the neurosurgical residency.

Oral Surgery—Dentistry

An approved three year internship-residency program in oral surgery is offered at the Eugene Talmadge Memorial Hospital in conjunction with the University Hospital, the Veterans Administration Hospital and the School of Dentistry. The objective of the program is the education of a skilled clinician, competent in all phases of oral surgery practice, and capable of satisfying the requirements of the American Board of Oral Surgery. The educational requirements of the Board are advanced study in oral surgery for a period of three years, including comprehensive study of the basic biomedical sciences as they relate to oral surgery and a progressively graduated sequence of approved hospital experience of not less than two years duration. The study of the biomedical sciences are presented throughout the three years in the form of regularly scheduled weekly instructional courses, conferences and seminars. Rotations on medicine, anesthesiology and surgery are provided during the period of training.

Orthopedic Surgery

The orthopedic program is a four year program which includes a period in the first year in general surgery. Experience and increasing responsibility is provided in the program in the basic science of orthopedics, fractures, children's and adult orthopedics, and reconstructive surgery. Affiliation with the Veterans and University Hospital is included. Long-term observation and comprehensive care are emphasized. Three residents are appointed each year.

Otolaryngology

The Division of Otolaryngology will offer an approved residency training program effective July, 1976. A prerequisite of one year post-graduate surgical training will be required. The actual Otolaryngology training will be three years in duration and the rotations will include the Eugene Talmadge Memorial Hospital, Veterans Administration, and University Hospital. Emphasis will be placed on a broad background to include a basic science course and adequate clinical exposure to Otolaryngology, Bronchoesophagology, Maxillofacial trauma, and Head and Neck surgery.

Plastic and Reconstructive Surgery

The overall program is planned to comprise two and one-half years including six months Hand Fellowship in Louisville, Kentucky with Dr. Harold Kleinert. Qualifications for residency includes completion of three years of general surgical training or the equivalent, high moral and

ethical standards and the recommendation from previous training programs.

The primary objective of the Division of Plastic and Reconstructive Surgery is to provide quality instruction and clinical material for general plastic surgical training. This broad based program will be structured to offer didactic and clinical application in the basic understanding of wound healing, tissue transplantation, metabolic and genetic alteration and specific surgical techniques during the early phase of training with graded clinical responsibility in the latter years. Specific areas of interest will include the cleft lip-palate, craniofacial anomalies, diagnosis and management of congenital hand anomalies and hand injuries, acute burn therapy and reconstruction, ablation of head and neck tumors and reconstruction, and cosmetic surgery.

Rotation schedules will begin at Talmadge Hospital for six months and follow for the second six month period at University Hospital or at the Veterans Hospital. The second year of training will begin with a six month Hand Fellowship in Louisville, Kentucky, under the direction of Dr. Harold Kleinert. This program provides one of the most inclusive exposures to hand surgery available. The chief year is one of application of principles, both in the operating room and in primary patient responsibility. The final six months will be spent at Talmadge Hospital.

Thoracic Surgery

A two or three year program. Prerequisites include internship and four years of general surgery residency (with chief residency). Primarily in the teaching hospital with rotations through Memorial Hospital, Savannah, Ga., and Veterans Administration Hospital, Augusta. Four residents.

Urology

A three year program with prerequisites of one year internship and one year in a field basic to urology (usually a year in general surgery). It is served in the teaching hospital and at the Veterans Administration Hospital. Six residents.

Continuing Medical Education

The objective of continuing education is to preserve and increase professional knowledge and competence throughout the entire career of professional health workers. The program of Continuing Medical Education in close cooperation with the departments in the School of Medicine and with the Division of Continuing Education has the responsibility for developing and presenting educational activities to assist professional health

workers in maintenance and further development of their skills.

Types of Courses

1. **Campus Symposia**
Numerous courses lasting from one to five days are presented each year.
2. **Physicians' Continuing Education Series**
In several cities throughout Georgia a series of one day medical symposia are presented each year.
3. **Intermittent Courses**
Each session of these courses usually lasts a few hours, and sessions are held at specified times over a period of months.
4. **Special Technic Workshops**
Workshops in laboratory, diagnostic and therapeutic procedures offer enrollees an opportunity to obtain practical experience.
5. **Clinical Traineeships**
Experience in wards or laboratories for periods of one week or longer is offered by special arrangement with the chairman of the department concerned and the Division of Continuing Education.

Program Announcements

Prior to each course, brochures describing the topics, faculty, meeting place, time, and regis-

tration fees are mailed to the group for whom the course was developed.

Credits

Instruction presented in this program is not designed to give credit toward specialty qualification or academic degrees. However, a record of attendance is maintained for the benefit of those individuals who attend these courses, and continuing education units (C.E.U.'s) are awarded for most courses.

The program of Continuing Medical Education is accredited by the Council on Medical Education of the American Medical Association, and physicians' attendance at most courses is acceptable for credit toward the Physician's Recognition Award of the American Medical Association.

Attention is given to the requirements of the American Academy of Family Practice, and attendance at most courses is accepted for credit by the Academy.

Fees

The enrollment fees for continuing education courses are listed separately for each course and are based on guest faculty participation, hours of instruction, and equipment required.

Residents, interns, medical students, and college faculty may attend most courses without fees. Certain courses are restricted and have limited enrollment.

Dean—Dr. Dorothy T. White

Associate Dean for Continuing Education—Susan Bruno

Associate Dean for Curriculum Development—Dr. Philip E. DeLorey

Associate Dean for Graduate Programs—Dr. Patricia A. Moxley

Associate Dean for Undergraduate Programs—Preston L. Davidson

Adult Nursing—Robert E. Leftwich, Chairman

Distributive Nursing—Mary M. Ware, Chairman

Mental Health Nursing—Linda A. Ellis, Chairman

Maternal & Child Nursing—Dorothy M. Johnson, Chairman

Nursing Administration—Norma M. Langner, Chairman

School of Nursing



School of Nursing

The Baccalaureate Program in Nursing

The administration and faculty believe that nursing is a significant force in the total health care of all people, and that it is through guided experiences in the preventive, curative, and rehabilitative aspects of nursing that students are able to develop a comprehensive concept of the health needs of people. It is believed that a planned program of general education extending through four academic years, combined with professional courses, aids students in learning more effectively.

The School of Nursing accepts as its aim the selection and training of young men and women who have the potential for development within our educational environment as enlightened and contributing citizens and as professional nurses. Through the use of the problem-solving approach and our planned experiences, the graduate is expected to become a purposeful, thinking, self-directed member of the professional society, able to identify and analyze data objectively, and to make critical judgments on the basis of principles in both personal and professional roles.

It is expected that graduates of the College program can work effectively with other disciplines in the care of patients. The graduate is prepared to plan, execute, and evaluate the nursing needs and care of individuals in the community; to function as a beginning professional practitioner in any field of nursing, including public health. The graduate has had guided learning experiences in management and leadership, and with experience, the graduate with potential may move into head nurse positions. The graduate may, if ability and achievement warrant, prepare through graduate courses for positions in teaching, administration, supervision, research or other areas.

Objectives

The objectives of the program are to provide appropriate learning experiences which enable students:

1. To develop attitudes, professional and intellectual abilities involving the use of communications skills, leadership and helping skills, general and scientific knowledge of such breadth as will make possible development of

- competencies in the practice of rehabilitative, preventative, and creative nursing and as will provide a sound basis for future specialization.
2. To appreciate the dynamic contribution of nursing to health goals, and their implementation for society and to develop those participatory skills essential to accepting responsibility of the health team.
3. To promote understanding of self, personal growth, and the development of creative ability in order to live more happily as well as to attain and maintain health for oneself and others.
4. To develop critical attitudes and skills, in evaluation and problem solving as a basis for effective nursing practice and as a basis for contributing to the development of professional nursing.
5. To understand some aspects of the major philosophies and practices as they relate to personal and spiritual growth and to nursing patients and families.

Accreditation

The School of Nursing is accredited by the National League for Nursing and is a member agency of the Department of Baccalaureate and Higher Degree Programs.

The program is also approved by the Board of Examiners of Nurses for Georgia. Graduates are eligible to take the state licensing examination, successful completion of which entitles the nurse legally to practice nursing and to use the title "Registered Nurse" (R.N.).

Admission Requirements

In addition to general requirements of the college, applicants must meet the following:

Age

The minimum age is 16 for admission to the freshman year of the School of Nursing as required by the Board of Examiners of nurses for Georgia.

Personal Interviews

May be arranged at the discretion of the student and/or faculty.

Academic Criteria

Preference will be given the applicant who has demonstrated superior academic ability. The applicant must present evidence of graduation from an

accredited high school or its equivalent. The entering freshman must present credentials to indicate completion of the following high school credits from an accredited high school:

	Units
English	4
Mathematics (must include one unit of algebra)	4
Sciences (General biology, chemistry, physics)	2
Social studies (one unit of American History)	2
Other academic units	4
Unrestricted electives	2

High school level test of General Education Development will not be accepted unless accompanied by a state high school diploma.

Application Procedure

Application forms with instructions for completing the admission procedure may be obtained from the Office of Admissions. Application for each entering student must be filed completed no later than 31 days prior to the registration date for the quarter in which the applicant wishes to be admitted. Early application is encouraged.

Transcripts from all high schools and/or colleges attended are part of the application and are necessary to determine admission and placement. CEEB-SAT scores are also part of the application for beginning freshmen and should be sent by Education Testing Service or on the official transcripts.

Those applicants who are already Registered Nurses must submit evidence of current registration for admission to the R.N. degree completion program.

Financial Aid and Employment Opportunities

The student Financial Aid Bulletin may be obtained by writing to the Financial Aid Office. A limited number of part-time employment opportunities are available through the Personnel Office.

Students may enroll in the student Army or Navy Nurses Corps beginning with either the junior or senior years.

An application form on which you may apply for any of the other programs listed in the brochure may be secured by writing the Financial Aid Office.

Student Organizations and Activities

Students in the School of Nursing participate in the activities and organizations of both the Medical College of Georgia and Augusta College.

An Honor Society was organized in 1969. It was chartered as a local chapter of Sigma Theta Tau in 1973.

In addition to the regular activities at the College, students in Nursing may belong to class organizations and the Student Nurses Association.

Facilities, General Education and Professional

The general facilities of the Medical College combined with those of Augusta College, offer excellent opportunities for a balanced program of liberal and professional education.

In addition to facilities for instruction as listed in the General Information, of this Catalog, the School of Nursing utilizes other agencies as necessary: Gracewood State School and Hospital, Veterans Administration Hospitals, University Hospital, Augusta Regional Hospital, industries, nursing homes, day and nursery schools, and other agencies selected on the basis of their contribution to the student's understanding of continuity of patient care and total health planning.

Fees and Expenses

Estimated Student Expenses Per Academic Year	First Year	Second Year	Third Year	Fourth Year
*Matriculation fee	435	435	435	435
**Health fee	30	30	30	30
Activities	30	30	30	30
Books & Supplies	130	130	130	130
Uniforms		200		
***Housing	330	330	330	330
Food	600	600	600	600
Personal (Laundry, entertainment, travel, etc.)	450	450	450	450
Totals	2,005	2,205	2,005	2,005

*Non-resident tuition (in addition to matriculation fee) \$720 per year. (\$240 per quarter). Matriculation fee is \$145 per quarter.

**Health fee is \$10 per quarter. Activities fee is \$10 per quarter.

***See General Information Section for the cost of various on-campus housing options. See General Information Section for hospitalization and Life Insurance costs. Fees and expenses are subject to change without notice.

Curriculum

The School of Nursing offers a four-year, 12-quarter, academic program leading to the degree of Bachelor of Science in Nursing.

The courses in general education and supporting areas are offered throughout the program. They are planned to contribute to the professional courses and to the offering of a sound, integrated four-year program. It is the purpose of the School of Nursing to develop a curriculum which aids in the development of the individual personally, as a citizen and as a professional nurse.

The outlined curriculum pattern is subject to change.

First Year	Credit Hours
Eng 101	5
Eng 102	5
Social Sciences	10
Natural Sciences	10
Bio 111 or *Anm 320	5
Bio 112 or *Anm 321	5
Nsg 150	5
Total	45

Second Year	
*His 211 & *Pol 101	10
Mat 101	5
Social Science Elective	10
Nsg 251	5
Nsg 252	5
Nsg 254	5
Nsg Elective	5
Total	45

Third Year	
Social Science Elective	5
Nsg 351	5
Nsg 352	5
Nsg 333	5
Nsg 334	5
Nsg 317	5
Nsg 318	5
Humanities Elective	5
Nsg Electives	5-10
Total	45-50

Fourth Year	
Humanities Elective	5
Nsg 404 or 405	5
Nsg 419	5
Nsg 453	5
Nsg 489	5

Fourth Year (Cont.)	Credit Hours
Nsg 490	5
Nsg Electives	5-10
Free Electives	10
Total	45-50

General Education	90
Nursing	90
Total Credit Hours	180

*Legislative Requirements: May be fulfilled by passing the validation exam at any college in the State system or by History 211 or 212 and Political Science 101. Students who successfully validate must take 10 quarter hours in any history courses.

Summer course offerings are determined by availability of faculty and the needs of selected students.

Throughout the program and largely in the clinical courses, an application of principles from the social-physical and biological sciences, as well as health concepts including mental health, geriatrics, nutrition and diet therapy, patient and family teaching, interpersonal relationships and communication skills, pharmacology, epidemiology, biostatistics, disaster nursing, occupational health, environmental factors, and rehabilitation skills will be integrated.

All clinical nursing courses include laboratory practice in the clinical setting.

For description of courses other than nursing, refer to the Augusta College Bulletin.

Registered Nurse Degree Completion Program

Admission to this program is limited to currently licensed registered nurses. The program is a sequence of six courses specifically designed for the R.N. student (hospital diploma or associate degree graduate) attempting to complete requirements for the Bachelor of Science degree in nursing. Admission to the program is fall quarter of each year. Minimum time in residence is three academic quarters (fall, winter and spring). Courses taken in MCG off-campus centers apply to the residency requirements. The program is as follows:

Fall Quarter

Nsg 481	Perspectives in Professional Practice
Nsg 482	Nursing in Changing Health Care Systems

Winter Quarter

- Nsg 483 The Nurse as a Scholar
Nsg 484 Collaboration, Negotiation
and Compromise

Spring Quarter

- Nsg 485 Principles, Power, Politics
and Policy
Nsg 486 Nursing

The six nursing courses listed above must be taken. No transfer, equivalency or credit by examination is allowed for these. In addition, students may take one or two electives each quarter as needed to meet the 180 quarter hour graduation requirement. Except for equivalency credit granted for nursing in hospital diploma or associate degree programs, and the six course sequence in nursing, R.N. students must meet the same graduation requirements as all other candidates for the B.S.N. degree.

MCG Sonat

This three year B.S. in Nursing program is offered at the Medical College of Georgia School of Nursing at Athens, Georgia. Admission requirements are graduation from high school within year of application, no previous college credit or nursing experience, and acceptable CEEB-SAT scores.

This is a satellite program directed and taught by a coordinator and faculty of the MCG School of Nursing. Students are committed to twelve consecutive quarters of study (including summers) and admission is in the fall quarter of each year only. Students unable to meet the twelve consecutive quarter requirement (or other requirements) must withdraw from the MCG Sonat Program, but may transfer to the Augusta campus without loss of credit or other penalty.

Students in this program take all general education coursework (core curriculum) on the University of Georgia campus in classes taught by University of Georgia faculty. Nursing classes are taught on the University of Georgia campus by MCG School of Nursing faculty. Major laboratory experiences are obtained at St. Mary's Hospital and Athens General Hospital.

Application for admission to this program *must* be made to:

Office of Admissions
School of Nursing,
School of Allied Health Sciences
Medical College of Georgia
Augusta, Georgia 30902

Application *cannot be made* to the University of Georgia for admission to this program. All accepted applicants enroll as Medical College of Georgia students and, on completion of the program, will be awarded the Bachelor of Science in Nursing degree from the Medical College of Georgia.

Scholarship and Promotion

Academic Advancement

Promotion is dependent on satisfying all academic course requirements, with no "0" grades accepted. A minimum point average of 2 is required.

Transfer Credit

Transfer of credit for the first year of work and for other equivalent courses, as evaluated by the Registrar, may be credited toward the Baccalaureate degree in Nursing. See "Scholarship and Promotion." No "F" grades may be transferred. Transfer students must meet the same requirements as other students in the program.

Probation and Suspension

A student who falls below a 2.0 average in any given quarter will be carried on probation. Freshmen students are expected to meet the grade point average of 2 by the end of the third quarter. Students on probation for 3 quarters are placed on academic suspension for one year.

Advancement Examinations

The policy governing achievement examinations shall be posted in the School of Nursing; students will meet requirements of courses and achievement examinations according to current policies. Taking the NLN Baccalaureate level achievement tests are promotion and graduation requirements. Courses are to be taken in sequence. Exceptions must have the approval of the Dean. According to current policy, successful completion of general exams and subject exams offered through CLEP and USAFI will be accepted for credit.

Examinations on the History and Constitutions of the United States and Georgia

Examinations on these subjects are required of all students unless exempted by presentation of course credit dealing with these constitutions and histories. A student is advised to meet this requirement early in the academic career. CLEP exams do not meet these requirements.

Physical Education Requirements

Candidates for undergraduate degrees will present a minimum of one (1) quarter of physical education credit for graduation.

Requirements for Graduation

General requirements for graduation from the undergraduate programs of the Medical College are listed in the introductory section and in the General Information section.

Applicable specifically to the School of Nursing

Completion of all senior nursing courses is required with at least 180 quarter hours excluding Physical Education completed for graduation. All graduates must meet the requirements for the degree as outlined for that graduating class.

The Master of Science in Nursing Program

Objectives

This program is designed to provide educational experiences which will enable the student to:

1. Demonstrate in the selected areas of nursing practice expertise in fulfilling specific responsibilities; expertise requiring knowledge of the concepts of stress and adaptation and the skills of assessment, interpretation, intervention and evaluation.
2. Assume the role of client advocate in professional nursing practice; a role consistent with the concept of nursing's essential act as that of "caring."
3. Initiate collaborative relationship with clients and health professionals in planning, implementing and assessing effective health care delivery.
4. Extrapolate from the present the future roles of professional nurses in the delivery of health care by defining, describing, and delineating the roles of nurses in terms of responsibility and legal accountability to clients and society.
5. Effect changes in the delivery of nursing care which contribute to the welfare of the clients of the health care system.
6. Identify areas of research related to the nursing process, teaching of the nursing process or the administration of the nursing process; propose

and implement the appropriate research design; and interpret and evaluate the results.

7. Accept responsibility for continuing professional growth through the exercise of leadership among health professionals, and the incorporation of new information and techniques gained from the literature and research in one's respective area of practice.

Registration for Courses

Students admitted to the Graduate Programs in Nursing register and matriculate for courses at the Medical College of Georgia. Due to the wide range of educational offerings at the other institutions in the area, means are provided for students to take courses taught by other institutions and to receive credit for these. A student may select a major in Adult Nursing, Mental Health-Psychiatric Nursing, Family Nurse Clinician, and Nursing Administration (in Health Agencies and Continuing Education Programs in Nursing). In the clinical field the student may elect to prepare for clinical nursing specialization or for teaching specialization.

The Graduate Programs in Nursing also offers a three-summer program in teacher specialization culminating in the Master of Science Degree in Nursing. The program is designed primarily for teachers in Collegiate nursing programs who are attempting to upgrade their educational qualifications. Through the utilization of the short summer session (two sessions each summer), students may acquire up to twenty quarter hours credit per summer. Students in this program also have the opportunity to obtain additional credit from other schools. Applicants to this program and to the regular program who do not have a Baccalaureate degree in nursing will take equivalency examinations to demonstrate competency and knowledge in the clinical areas.

Fees

See General Information Section, Graduate Fees.

Admission Requirements

1. A Baccalaureate degree.
2. Licensure or eligibility for licensure as a Registered Nurse.

Application

Application for admission to the Graduate Program in Nursing at the Medical College of Georgia is made directly to the Office of Admissions, School of Nursing, Medical College of Georgia, Augusta, Georgia 30902.

The program begins with the summer or fall

quarter. The complete application should be on file at least four weeks prior to the beginning of the desired quarter. However, it is suggested that the initial application papers be submitted six to nine months in advance.

Applicants should confer with the major advisor of the field of choice and with the Associate Dean, Graduate Programs in Nursing regarding program planning.

Course Descriptions



Course Descriptions

School of Allied Health Sciences

Dental Hygiene

- DH 300. Clinical Dental Hygiene. (0-9-3 hours)
- DH 301. Clinical Dental Hygiene. (0-9-3 hours)
- DH 302. Clinical Dental Hygiene. (0-9-3 hours)

Prerequisite: Dental Hygiene student

These courses provide the student with the opportunity to gain knowledge and skills in the delivery of patient care for which the dental hygienist is responsible. Emphasis is placed on comprehensive oral disease control. Each quarter offers the student the opportunity for patient involvement in the Dental Hygiene Clinic.

- DH 312. Dental and Oral Anatomy. (1-3-2 hours)

Prerequisite: Dental Hygiene student

A study of the morphology of tooth structure and identification with the relationships to the practical aspects of patient education and prophylaxis technique stressed. Areas include: dental terminology, eruption patterns, description of the permanent dentition and discussions of the deciduous dentition. Laboratory exercises using drawings and wax-on technique provide training in precision motor skills, introduction to manipulation of certain dental materials and introduction to three-dimensional conceptual perception.

- DH 314. Dental Radiology. (2-0-2 hours)

- DH 315. Dental Radiology. (1-3-2 hours)

Prerequisite: Dental Hygiene student

These courses are designed to acquaint the dental hygiene student with the fundamentals of Radiology, intra-oral techniques for taking and processing of radiographs are taught. Clinical time is afforded for the application of these principles.

- DH 320. Introduction to Patient Care. (2-0-2 hours)

Prerequisite: Dental Hygiene student

This course is designed to provide the student with fundamental clinical theory and didactic information to enable him/her to become engaged in the clinical services provided by a dental hygienist, i.e. prophylaxis technique, patient education.

- DH 321. Introduction to Patient Care. (2-0-2 hours)

- DH 322. Introduction to Patient Care. (2-0-2 hours)

Prerequisite: Dental Hygiene student

These courses are continuation courses of DH 320. They provide basic clinical dental hygiene theory for the student with emphasis on two additional goals:

1. To give additional care to patients with various types of special problems and needs and,
2. Through the review of current literature, provide the student with added information relative to current trends in dental hygiene procedures and techniques.

- DH 400. Clinical Dental Hygiene. (0-12-4 hours)

- DH 401. Clinical Dental Hygiene. (0-12-4 hours)

- DH 402. Clinical Dental Hygiene. (0-18-6 hours)

Prerequisite: Dental Hygiene student

These courses are continuation courses to DH 300, 301, 302. Opportunity is afforded the student to expand both knowledge and technique. The development and

practice of skills necessary in the prevention of oral disease is emphasized.

- DH 407. Introduction to Educational

Media. (2-0-2 hours)

Prerequisite: Dental Hygiene student

A survey of audiovisual media as effective means for achieving educational objectives. Emphasizes selection and use of both commercially available and simple locally produced instructional materials in a large group or individual communication interaction.

- DH 408. Preventive Dentistry and

Nutrition. (3-0-3 hours)

Prerequisite: Dental Hygiene student

This course is designed to provide the dental hygiene student with a background knowledge of thorough preventive measures. This course also deals with communication and motivation concepts which will assist the hygienist in encouraging her patients to use the above measures in the prevention and control of both oral and general health problems.

- DH 411. Public Health Field

Experience. (2-3-3 hours)

Prerequisite: Dental Hygiene student

The dental hygiene student is introduced to the principles and procedures of health education in the community setting. Using the techniques of group processes, the students design, plan, prepare, present and evaluate a school dental health program for a selected community. Participation in the community, during the week of program presentation, is required. The Georgia Department of Human Resources cooperates in the provisions of the field experience.

- DH 415. Career Options in Dental

Hygiene. (6-18-12 hours)

Prerequisite: Dental Hygiene student

This course is designed to give the student a more in-depth experience in the practical and didactic aspects of the three major dental hygiene areas: dental hygiene education, public health and clinical practice.

- DH 419. Seminar. (2-0-2 hours)

Prerequisite: Dental Hygiene student

The seminar in Periodontics provides the student with an opportunity to give in-depth study of the field of Periodontics for the dental hygienist.

- DH 424. Dental Assisting. (0-3-1 hours)

Prerequisite: Dental Hygiene student

The course in dental assisting is coordinated with the course in dental materials to provide the student with an overview of common dental assisting procedures.

- DH 425. Extra Mural Clinics. (0-3-1 hours)

Prerequisite: Dental Hygiene student

This is a companion course to dental assisting and dental materials and provides the student with experience in the various dental disciplines.

- DH 427. Practice Management. (2-0-2 hours)

Prerequisite: Dental Hygiene student

In preparation for graduation and entry into community and professional life, discussions will be held concerning dental hygiene, state board examinations, state practice acts, employment, private practice environments, legal situations, ethical codes of conduct, business procedures and professional organizations. Thus, the

major goal of this course is to help equip the dental hygienist to undertake her new personal and professional role more effectively and confidently.

Medical Record Administration

MRA 301, 302. Medical Terminology. (2-2-3 hours)
Prerequisite: basic Anatomy course

A study of the language of medicine including word construction, definition, and use of terms related to all areas of medical science, hospital services, and health related fields.

MRA 310, 311, 410, 411. Theory of Medical Record Administration. (2-4-4 hours) (5-2-6 hours) (4-2-5 hours) (4-2-5 hours)

Prerequisite: MRA student

A survey of the history and development of medical record systems; an in-depth study of the principles of securing, analyzing, processing, preserving, and using medical data; development of indexes, registers, and hospital statistics; inter-relationships of various types of institutions and agencies involved in health care.

MRA 320. Organization and Administration I. (2-2-3 hours)
Prerequisite: Principles of Management

A study of the planning function of management as related to office management in a medical record department.

MRA 420. Organization and Administration II. (3-0-3 hours)
Prerequisite: Principles of Management

A study of the actuating function of management covering such topics as psychology of personnel, selection and placement of personnel, employee training, salary administration, and supervision.

MRA 421. Organization and Administration III. (0-10-5 hours) (0-10-5 hours)
Prerequisite: MRA student

Student projects and research designed to utilize skills and knowledge from other courses related to management of a medical record department. Independent study.

MRA 340, 341, 440, 441. Directed Experience. (0-6-2 hours) (0-8-4 hours) (0-4-2 hours) (0-24-12 hours)

Prerequisite: MRA student

Supervised learning experience through which the student develops insight, understanding and skill in record keeping in hospitals and other medical institutions. The student learns to deal with problems of department and personnel management, accepts responsibilities for certain jobs in the medical record department, gains experience in working with professional and non-professional groups in a health agency, and recognizes the need for preservation of the confidentiality of medical information.

MRA 401, 402. Fundamentals of Medical Science. (5-0-5 hours) (5-0-5 hours)
Prerequisite: MRA 302

An introduction to medical science including study of nature and cause of disease, treatment and management of patients. Presented by the physicians representing all of the major clinical areas of medicine.

MRA 422. Legal Concepts for the Health Fields. (3-0-3 hours)

Principles of law affecting health records; rights of persons requiring information from medical records; medicolegal problems; court procedures; principles of ethics; management of release of information from hospital medical records.

MRA 425. Seminar. (0-6-3 hours)
Prerequisite: MRA student

Seminar on situations encountered in medical record departments in hospitals, clinics, and other medical facilities.

MRA 430. Data Processing Systems I. (0-6-3 hours)
Practical application of principles and procedures presented in HS 420, HS 440, and HS 450, which are prerequisites as well as MRA 410.

Medical Technology

MTC 305. Laboratory Medicine Case Presentation. (1-0-1 hour)

Current patients presented and discussed by students and faculty integrating pathophysiology, biochemistry, microbiology and anatomical abnormalities where applicable.

MTC 306. Laboratory Medicine Seminar. (1-0-1 hour)
In-depth topic discussion on clinical laboratory science subjects.

MTC 362. Instrumentation. (2-6-5 hours)

A didactic and laboratory experience designed to introduce the student to the basic principles of electronics, clinical laboratory instruments. Trouble shooting ability is expected upon completion of the course.

MTC 363. Urinalysis. (2-3-3 hours)
A study of the diagnostic value of urine using basic chemical analysis and microscopic examination.

MTC 364. Laboratory Mathematics and Statistics. (3-0-3 hours)

Calculations involved in the preparation of various chemicals and reagents and basic statistics including quality control as related to the clinical laboratory.

MTC 365. Biochemistry Laboratory. (0-3-1 hours)
A laboratory experience designed to coincide with CMB 345 (Biochemistry) as biochemistry is related to Medical Technology.

MTC 370. Introductory Microbiology Laboratory. (0-2-1 hours)

Discussion, demonstration, case presentations and laboratory exercises concerning the nature of micro-organisms related to medical microbiology. Use of audio visual and tutorial techniques. Correlates with MIB 310. Introductory Microbiology.

MTC 371. Medical Mycology and Parasitology. (3-4-5 hours)

Introduction to fungi and yeasts of medical importance, including isolation, identification, pathogenesis, treatment and safety precautions. To also include

the study of more common isolates classified as contaminants in the clinical laboratory. Introduction to techniques for the examination and identification of parasites which infest man.

MTC 375. Basic Immunology. (2-3-3 hours)

Two lectures or recitations per week and one lab session per week. Basic principles of immunology; antigenic and antibody response with serologic methodology.

MTC 381. Fundamentals of Clinical Hematology. (4-5-6 hours)

Prerequisites: MTC 362 and 375, or permission of instructor.

Blood cell derivation, maturation and function with emphasis on normal blood and bone marrow morphology. Basic principles of hemostasis and blood coagulation. Study and interpretation of basic hematologic procedures utilized in diagnosis and treatment of various blood dyscrasias and hemorrhagic disorders. Practical experience is gained in all basic procedures using both manual and automated techniques.

MTC 391. Techniques of Management and Education. (2-2-3 hours)

Basic concepts of management and education skills. Emphasis placed on development of concepts and practice of techniques through case methods, group activities, and/or role playing.

MTC 394. Directed Individual Study. (TBA)

MTC 395. Directed Individual Study—Blood Bank. (TBA)

MTC 396. Directed Individual Study—Chemistry. (TBA)

MTC 397. Directed Individual Study—Hematology. (TBA)

MTC 398. Directed Individual Study—Microbiology. (TBA)

MTC 399. Directed Individual Study—Instrumentation. (TBA)

MTC 440. Clinical Chemistry. (6-9-10 hours)

Prerequisites: MTC 362, MTC 364, MTC 365, and CMB 345 or permission of instructor

Didactic and laboratory experience designed to integrate chemistry, biochemistry, mathematics and instrumentation into the practice of clinical chemistry as a medical technologist. Study will include the application of clinical chemistry to diagnosis of disease.

MTC 442. Clinical Practicum Chemistry. (5-30-10 hours)

Prerequisite: MTC 440 or permission of instructor

Practical application and techniques in Clinical Chemistry.

MTC 448. Clinical Microbiology. (8-12-14 hours)

Prerequisites: MIB 310, MTC 370, MTC 371, or permission of instructor

Distribution and nature of pathogenic microorganisms; mechanisms of transmission, pathogenesis; principles of communicable diseases and disease control; diagnostic methods of isolation and identification including serological methods. Theoretical and practical knowledge presented so that students work with materials and problems related to diagnostic microbiology.

MTC 449. Clinical Practicum Diagnostic Microbiology. (5-30-10 hours)

Prerequisites: MTC 448 or permission of instructor

Practical application of diagnostic techniques in the hospital microbiology laboratory.

MTC 460. Advanced Instrumentation. (3-8-7 hours)

Prerequisites: MTC 362, MTC 364, MTC 365, and CMB 345 or permission of instructor

Instrument principles and functions discussed and applied in depth. The greatest emphasis will be placed on automation in clinical chemistry.

MTC 472. Immunohematology Related to Transfusion Service. (5-8-9 hours)

Five lectures or recitations and two lab sessions per week. Introduction to red cell antigens and antibodies and their interactions; basic outline of inheritance; leukocyte and platelet groups and components preparation. Students learn the proper procedures and controls used in preparation of a unit of blood for transfusion; how to approach the identification of an unknown antibody; unknown blood group; titering of antibodies and special procedures such as absorption and elution.

MTC 473. Clinical Practicum Blood Bank. (5-30-10 hours)

Prerequisite: MTC 472

In-depth clinical experience and practical application in a hospital blood bank including donor room experience from interviewing of donors to the proper drawing of a unit of blood; plasmapheresis of donors and component preparation; and freezing of blood.

MTC 474. Diagnostic Immunology. (2-4-4 hours)

Prerequisite: MTC 375 or permission of instructor

Comprehensive methodology in theoretical principles for diagnostic immunology.

MTC 481. Clinical Hematology. (5-8-9 hours)

Prerequisites: MTC 345, 370, and 381, or permission of instructor

An in-depth study of qualitative and quantitative changes in peripheral blood and bone marrow cells found in pathologic disorders. Correlation of hematologic tests with other clinical findings in the diagnosis of various blood dyscrasias. Practical experience is gained in cytochemical study of blood cells, tests utilized in the differential diagnosis of hemorrhagic disorders, and the study of abnormal peripheral blood and bone marrow films. Study and interpretation of case history studies. Students participate in Hematology Grand Rounds, Hematology Conferences and Laboratory Medicine Case History Presentations.

MTC 482. Clinical Practicum Hematology. (5-30-10 hours)

Prerequisite: MTC 481 or permission of instructor

Practical application and techniques in hematology.

MTC 493. Seminar in Medical Technology. (1-0-1 hour)

MTC 494. Directed Individual Study. (To be Arranged)

MTC 495. Directed Individual Study—Blood Bank. (TBA)

MTC 496. Directed Individual Study—Chemistry. (TBA)

MTC 497. Directed Individual Study—Hematology. (TBA)

MTC 498. Directed Individual Study—Microbiology. (TBA)

MTC 499. Directed Individual Study—Instrumentation. (TBA)

Occupational Therapy

OTH 300. Occupational Therapy and the Community. (3-2-4 hours)

An introduction to the profession of occupational therapy. A frame of reference for practice is developed through the study of history and current trends in the field. The role of occupational therapy in relation to current health and social issues is emphasized. Includes field experiences in occupational therapy and the community.

OTH 301. Concepts in Development. (2-0-2 hours)

Major concepts in human development. Emphasis is on man and his life tasks, the acquisition of roles and adaptive processes.

OTH 302. Principles of Occupational Therapy I. (1-4-3 hours)

The assessment process and program planning in occupational therapy. Various assessment procedures are studied and practiced. Emphasis is on infancy through adolescence. Correlated with OTH 305 and OTH 310.

OTH 303. Group Process. (0-4-2 hours)

An experiential group course in which students and faculty participate in group exercises. The purpose is to present didactic material on group processes after experience in groups so that theory may be generalized from practical applications.

OTH 304. Principles of Occupational Therapy II. (2-6-5 hours)

A continuation of OTH 302 with emphasis on early adulthood through aging. Correlated with OTH 307 and OTH 320.

OTH 304a. Field Work Experience. (0-40-8 hours) Prerequisite: OTH 304

Full-time field work experience with emphasis on prevention and health maintenance. (June and July)

OTH 305. Human Developmental Process: Infancy through Adolescence. (1-4-3 hours)

Selected aspects of normal human development are presented through discussion of theories of development in physical, perceptual-motor, cognitive and sociocultural areas. Media and activities of childhood and adolescence are analyzed. Field activities include visits to schools and observations of individual children.

OTH 307. Developmental Process: Adulthood through Aging. (2-6-5 hours)

A continuation of human development with emphasis on early adulthood, middle age and aging. Laboratory and field experiences focus on the analysis of homemaking, work and leisure time activities.

OTH 310. Problems in Dysfunction. (1-2-2 hours)

The study of health problems from infancy through adolescence. Emphasis is placed on deficits, delays, deprivation and stress as causes of performance problems in self-care, productivity, and play/leisure activities. Correlated with OTH 302 and OTH 305.

OTH 320. Problems in Dysfunction. (1-2-2 hours)

The study of health problems from young adulthood through aging. Emphasis is placed on deficits, delays, deprivation and stress as causes of performance problems

in self-care, productivity and play/leisure activities. Correlated with OTH 304 and OTH 307.

OTH 332. Kinesiology. (2-4-4 hours)

The study of Kinesiology, biomechanics, growth and development, normal gait and patterns of human motion. Classroom and laboratory experiences correlated with OTH 307.

OTH 400. Principles of Occupational Therapy III. (4-8-8 hours)

The evaluation and management of patients/clients with psychosocial deficits or dysfunction.

OTH 400a. Field Work Experience. (0-40-8 hours) Prerequisite: OTH 400

Full-time field work experience with emphasis on the evaluation and management of clients/patients with psychosocial deficits and/or dysfunction.

OTH 410. Principles of Occupational Therapy IV. (4-8-8 hours)

The evaluation and management of patients/clients with physical deficits or dysfunction.

OTH 410a. Field Work Experience. (0-40-8 hours) Prerequisite: OTH 410

Full-time field work experience with emphasis on the evaluation and management of clients/patients with physical deficits and/or dysfunction.

OTH 420. Special Problems. (2-0-2 hours)

The study of contemporary health problems and issues. Students are involved in the selection and development of topics and activities.

OTH 430. Research Design and Methodology. (3-0-3 hours)

An introduction to research methodology and experimental design. Correlated with OTH 440. Independent Study.

OTH 440. Independent Study. (0-0-3 hours)

An individual project dealing with a special area of interest to the student.

Physicians' Assistant

PAD 308-309. Techniques of Physical Diagnosis (Laboratory and lectures combined) (2 quarters, 5 quarter hours each)

Prerequisite: P.A. student

This course was designed to develop student skills in history taking, physical examination and data collection. Emphasis is placed especially on the student's ability to relate his/her findings to the physician and be able to discuss the significance of these findings.

PAD 319. Pharmacology. (5-0-5 hours) Prerequisite: P.A. student

This course will introduce the student to the drugs used in the diagnosis and treatment of disease. Presented as a participative seminar and coordinated with the courses in physiology, anatomy and biochemistry.

PAD 321. Laboratory Diagnosis Skills. (2-6-5 hours) Prerequisite: P.A. student

This course will introduce the student to the technical

and clinical aspects of routine laboratory tests. The student will perform basic laboratory procedures e.g., CBC, micro and macroscopic urines, pregnancy tests, etc.

PAD 332. Diagnostic Specialty Techniques and Procedures. (4-2-5 hours)
Prerequisite: P.A. student

This course introduces the Physician's Assistant students to the diagnostic techniques and procedures utilized by physicians to assess their patients in their particular specialty.

PAD 335. Dog Lab. (2-6-5 hours)
Prerequisite: P.A. student

Dog Laboratory (this is an introduction to Emergency Room patient care). The students spend approximately twelve hours in the laboratory performing procedures on dogs that will later be expected to assist with or perform on patients.

PAD 401. Preceptorship. (8 wks. laboratory and lectures combined)
Prerequisite: P.A. student

The student works under the supervision and guidance of a physician in a primary care setting, usually in a rural area.

PAD 403-403A. Family Practice. (12 wks. laboratory and lectures combined)
Prerequisite: P.A. student

A two part rotation with six weeks concentration on didactics conducted at M.C.G. and a six week practical experience in another family practice center. The student will be required to establish a complete data base on a "family" of patients and do follow ups. The student will participate in staff conferences, clinics and attend lectures.

PAD 404. Medicine. (6 wks. laboratory and lectures combined)
Prerequisite: P.A. student

During this clinical experience the student will be assigned patients with a variety of medical disorders for assessment. The students will participate in data collection, ward rounds, clinics, staff conferences and attend lectures.

PAD 405. Pediatrics. (5 wks. laboratory and lectures combined)
Prerequisite: P.A. student

During this rotation the emphasis will be on the assessment of pediatric patients. Students will participate in data collection, ward rounds, clinics, staff conferences and attend lectures.

PAD 406. OB GYN. (4 wks. laboratory and lectures combined)
Prerequisite: P.A. student

During this rotation the emphasis will be on the assessment of obstetrical and gynecologic patients. The student will observe and assist in the operating rooms and delivery suites. The students will participate in data collection, ward rounds, clinics, staff conferences and attend lectures.

PAD 407. Mental Health. (4 wks. laboratory and lectures combined)
Prerequisite: P.A. student

The vast majority of time will be spent in initial and follow-up interviews of psychiatric patients. The student

will be exposed to patients not only with psychiatric disorders but also patients with alcoholic and drug abuse problems.

PAD 418. Surgery. (6 wks. laboratory and lectures combined)
Prerequisite: P.A. student

This clinical experience will expose the student to the assessment of surgical patients. The student will observe and assist in the operating room. The student will participate in data collection, ward rounds, clinics, staff conferences, and attend lectures.

PAD 420. Emergency Room. (4 wks. laboratory and lectures combined)
Prerequisite: P.A. student

This rotation provides the student with the experience to cope with emergencies commonly seen in a community hospital. The student will also participate in the assessment of non-critical, "walk-in" patients.

PAD 500. Series—Electives. (4 wks.)
Prerequisite: P.A. student

Physical Therapy

PTA 101. Introduction to Physical Therapy. (3-6-5 hours)
Prerequisite: Physical Therapist Assistant student or permission of instructor

The course is designed to assist the entering student develop a frame of reference for the study of physical therapy. Discussions, laboratory exercises and clinical visits are designed to provide the student with an overview of the physical therapy profession.

PTA 110, 111. Studies in Human Motion I, II. (1-3-2 hours)
Prerequisite: Physical Therapist Assistant student

The functional application of anatomical and physiological concepts in the study of normal human motion.

PTA 120. Topics in Physical Therapy I, II. (1-4-3), 121. (1-4-3)
Prerequisite: Physical Therapist Assistant student

The development of the student's ability to perform a physical therapy treatment is approached through the study of the physiological and psychological factors contributing to the patient's status. Physical therapy activities are presented sequentially in relation to pathological processes and the patient's total needs. Classroom and laboratory activities are designed to provide the student the opportunity to attain the skills of a physical therapist assistant.

PTA 130. The Helping Relationship. (2-0-2 hours)
The study of factors contributing to effective human interaction with emphasis on the relationship of health and behavior.

PTA 140. Clinical Practicum I, II. (part-time), 141. (part-time)
Prerequisite: Physical Therapist Assistant student

The practical application of the physical therapist assistant student's knowledge and skills in a clinical setting under the supervision and guidance of licensed physical therapists and physical therapist assistants.

PTA 220. Topics in Physical Therapy III, IV, V. (6-14), 221. (2-12-8), 222. (2-12-8)

Prerequisite: Physical Therapist Assistant student

Continued development of the student's ability to perform a physical therapy treatment is approached through the study of the physiological and psychological factors contributing to the patient's status. Physical therapy activities are presented sequentially in relation to pathological processes and the patient's total needs. Classroom and laboratory activities are designed to provide the student the opportunity to attain the skills of a physical therapist assistant.

PTA 230. Studies in Management. (5-0-5 hours)

Prerequisite: Physical Therapist Assistant student

The study of management theories and techniques utilized in the administration of a physical therapy service. The student will learn the role and responsibilities of the physical therapist assistant within the physical therapy department, other hospital services, and other health care agencies.

PTA 231. Health Care Issues. (5-0-5 hours)

Prerequisite: Physical Therapist Assistant student

The exploration of current issues and trends in health care at the state and national levels and their effects on the delivery of physical therapy services. Topics to be studied include methods of health care delivery, national health insurance, health maintenance organizations, professional peer review, and other relevant issues.

PTA 240. Clinical Practicum III, IV, V. (part-time), 241. (full-time), 242. (full-time)

Prerequisite: Physical Therapist Assistant student

Continued practical application of the physical therapist assistant student's knowledges and skills in a clinical setting under the supervision and guidance of licensed physical therapists and physical therapist assistants.

PTH 300, 301. Dynamics of Human Function I, II.

(5-4-7 hours)

Prerequisite: Physical Therapy student

The study of kinesiology, biomechanics, growth and development, normal gait, and patterns of human motion. Classroom and laboratory experiences are closely integrated with anatomy and physiology.

PTH 310. Concepts of Dysfunction I. (12-6-15 hours)

Prerequisite: Physical Therapy student

The study of all relevant pathological, medical and therapeutic concepts related to the practice of physical therapy. Included are physical therapy techniques and procedures, evaluative processes and development of treatment programs in relation to dysfunction. Classroom and laboratory experiences spiraling from the simple to the complex are utilized to help the student develop the necessary skills in physical therapy. Experiences related to the psychological, philosophical, economic, social and vocational aspects of illness and disability are included in appropriate areas. Seminar, independent study, and other active learning techniques are utilized throughout the sequence. Concepts are cumulative and continued growth is dependent on mastery and utilization of previous knowledge.

PTH 320. Clinical Experience I, II, III. (part-time), 321. (part-time), 322. (part-time)

Prerequisite: Physical Therapy student

Clinical experiences in a variety of health care facilities

are provided in facilities near the Medical College campus. These are provided one time per week during the winter and spring quarters of the junior year.

PTH 340. Interpersonal Relations. (2-0-2 hours)

Prerequisite: Physical Therapy student

The course is designed to assist the student to develop interpersonal communications skills and to serve as an introduction to the principles and techniques used in the helping process.

PTH 410. Concepts of Dysfunction II, III, IV. (12-6-15), 411. (12-4-14), 412. (10-2-11)

Prerequisite: Physical Therapy student

See Description in PTH 310.

PTH 420. Clinical Experience IV, V. (full-time), 421. (full-time)

Prerequisite: Physical Therapy student

The student will work in health care facilities in the Southeastern region of the United States. The experiences are structured to provide clinical experiences directly related to the academic curriculum.

PTH 422-423. Clinical Experience VI, VII.

Prerequisite: Physical Therapy student

Six weeks of full time clinical experiences provided in a wide variety of health care facilities. The experiences are designed to provide the student with the opportunity to develop skill in the art of treating a variety of patients.

See description in PTH 320.

PTH 430. Research Methodology. (5-0-5 hours)

Prerequisite: Physical Therapy student or permission of instructor

An introduction to interpreting and evaluating research literature, basic statistics and statistical reasoning, and to the scientific method.

PTH 431. Community Health. (3-0-3 hours)

Prerequisite: Physical Therapy student

The study of public and community health programs and the role of physical therapy in community medicine. Courses consist of classroom instruction and directed field experiences in various aspects of community health.

PTH 432. Designs for Administration. (5-0-5 hours)

Prerequisite: Physical Therapy student

Theories and application of administrative activities including personnel relations, budgeting, planning, organizing and operating a physical therapy department.

PTH 433. Seminar. (2-0-2 hours)

Prerequisite: Physical Therapy student

A seminar to explore special problems in physical therapy and health care.

PTH 434. Learning Processes. (5-0-5 hours)

Prerequisite: Physical Therapy student

Introduction to learning theory with application to physical therapy and special emphasis on in-service and continuing education.

PTH 440. (2-0-2), 441. (5-10-10). Independent Study.

Prerequisite: Physical Therapy student

Time and credit for independent study and special experiences is given to each student during the senior year. The purpose is to provide the student with the opportunity to study some aspect of physical therapy and health care in depth. These experiences are designed by

the student with guidance from appropriate members of the faculty. All students must participate in some aspect of independent study prior to graduation.

Radiologic Technologies

RAD 101, 111, 121, 201, 211, 221. Radiographic Anatomy & Physiology. (1-5-1 hours)

Prerequisite: Radiologic Technologies student

A basic knowledge of various systems, structures, and organs of the body and their function is presented.

RAD 102, 112, 122, 202, 212, 222. Radiographic Positioning. (1-5-1 hours)

Prerequisite: Radiologic Technologies student

Instruction in the radiographic positioning of the structures and organs of the body is given.

RAD 103, 113, 123, 203, 213, 223. Radiographic Film Critique. (1-5-1 hours)

Prerequisite: Radiologic Technologies student

A critical evaluation of the technical aspects of the finished radiograph, including positioning, film identification, processing errors and radiographic quality is taught.

RAD 104, 114, 124, 204, 214, 224. Radiographic Exposure. (1-5-1 hours)

Prerequisite: Radiologic Technologies student

A thorough understanding of the theory of x-ray technique and correlation of this knowledge with practical application is taught.

RAD 105, 115, 125, 205, 215, 225. Radiographic Physics. (1-5-1 hours)

Prerequisite: Radiologic Technologies student

The fundamentals of electrical and radiation physics are presented.

RAD 106, 116, 126, 206, 216, 226. Radiographic Clinical Experience. (0-20-5 hours)

Prerequisite: Radiologic Technologies student

Experience in the Radiology Department including observation and practice in the art of radiographic positioning and exposure is gained.

RAD 404, 414, 424. Advanced Radiographic Technical Procedures. (2-0-2 hours)

Prerequisite: Registered Technologist

A more advanced understanding of radiologic technology and how to apply this knowledge in everyday situations which arise in radiology departments is provided.

RAD 405, 415, 425. Advanced Radiologic Physics. (2-0-2 hours)

Prerequisite: Registered Technologist

These courses cover radiation physics, radiation therapy, dosimetry and radiation protection.

RAD 406, 416, 426. Radiologic Technology. (0-20-5 hours)

Prerequisite: Registered Technologist

These courses offer a continuing study of radiographic techniques at a high level with an opportunity to specialize for a quarter each in some of the following:

- a. Department Management
- b. Diagnostic Procedures

- c. Hemodynamics
- d. Nuclear Medicine
- e. Radiation Health Physics and Radiation Protection
- f. Radiation Therapy
- g. Special Procedures
- h. Teaching

RAD 407, 417, 427. Radiology Accounting and Management. (1-0-1 hours)

Prerequisite: Registered Technologist

The basics of Accounting and Management and their application in a Radiology department are covered.

RAD 408. Radiologic Sensitometry Laboratory. (3-4-5 hours)

Prerequisite: Registered Technologist

Lectures & lab experiments & written reports on film latitude, speed and gamma are included. The validity of the reciprocity law and the resolving power of exposure time with screens are demonstrated by student experiments.

RAD 418. Nuclear Medicine Laboratory. (3-4-5 hours)

Prerequisite: Registered Technologist

Lecture and lab experiments using geiger counters, gamma spectrometers and other detecting equipment illustrate the use of radioactive isotopes in nuclear medicine and their relationship to clinical medicine and diagnostic techniques.

RAD 428. Radiation Therapy. (3-4-5 hours)

Prerequisite: Registered Technologist

Lecture and laboratory experiments on various aspects of radiation therapy including treatment planning, equipment calibration techniques, and the application of computers are related to radio-therapy.

RAD 433. Survey of Radiologic and Medical Technology. (2-6-5 hours)

Prerequisite: NMT 422

The procedures of nuclear medicine are related to specific procedures of radiology and laboratory medicine. Particular emphasis is given to the correlation of diagnostic examinations in these disciplines. Students are rotated through the various laboratories and examining rooms for visual observation and restricted participation in the specific procedures of radiology and laboratory medicine.

The use of therapeutic radiation from x-ray products machines and radionuclides is also considered in relation to nuclear medicine.

NMT 311. Introduction to Nuclear Medicine. (1-0-1 hours)

Prerequisite: NMT student

Types of procedures, methods of record keeping, ordering, storing and disposal of radionuclides are presented. Departmental organization and business management are discussed. Routine and emergency handling of patients receives special consideration.

NMT 321. Nuclear Medicine Technology. (3-2-4 hours)

Prerequisite: NMT student

Routine procedures in clinical nuclear medicine imaging are presented in lecture demonstrations. Special emphasis is given to positioning for gamma camera and dual probe rectilinear studies. Technique for preparation and the intravenous injection of calibrated dose quantities is an essential element of this course.

NMT 312. Nuclear Medicine Technology. (4-2-5 hours)
Prerequisite: NMT 321

Routine procedures of the radiochemical laboratory, particularly in vitro studies and preparation of pharmaceuticals are presented in lecture and student lab.

NMT 204, 301, 302, 303, 304, 401, 402, 403 404.
Clinical Nuclear Medicine. (0-20-5 hours)
Prerequisite: NMT student

These courses represent credit given for required practical experience in the nuclear medicine departments of the associated teaching hospitals. In these institutions qualified technologists instruct the student in the routine imaging and radiochemical laboratory. The student's performance will be judged by his ability to work with patients, assume responsibility, perform quality procedures and cooperate with others. Satisfactory performance must be demonstrated in the clinical environment for completion of the overall program.

NMT 421. Special Radiochemical Laboratory Tests. (3-4-5 hours)
Prerequisite: NMT student

Those radioassays not presently being performed routinely in the small nuclear medicine department are discussed. The small scale practicality of the examinations is considered. Current research problems are investigated. Examples of non-routine in vitro radio-assays are performed in laboratory sessions.

NMT 422. Selected Topics. (2-6-5 hours)
Prerequisite: NMT 421

Students will be assigned study and research topics according to their special interests.

PCS 301. Physics of Nuclear Medicine. (5-0-5 hours)
Prerequisite: NMT student

An introductory course which covers basic physics with special emphasis on the fundamental concepts of nuclear physics is taught.

PCS 302. Physics of Nuclear Medicine. (3-4-5 hours)
Prerequisite: PCS 301

This course is designed to give the student a general knowledge of the instrumentation used in the detection of ionizing radiation. Lectures and labs will include practical use of Geiger counters, ionization chambers, multichannel analysers, rectilinear scanners, solid state detector assemblies and gamma cameras.

PCS 303. Physics of Nuclear Medicine. (5-0-5 hours)
Prerequisite: PCS 302

Included in this course are the basic concepts of radiation biology, the effects of radiation on our environment, the state and federal radiation safety rules and regulations and the use of therapeutic radionuclides.

PCS 411. Advanced Mathematics and Physics. (5-0-5 hours)
Prerequisite: PCS 303

The basic techniques of integral and differential calculus are presented and examples of particular relevance to nuclear medicine are treated. Some simple differential equations and vector problems are also examined.

PCS 412. Clinical Data Processing. (3-4-5 hours)
Prerequisite: PCS 411

Computer applications in imaging and counting data are presented. An interpretive language is explained and

routine problems in statistical analysis of counting data, laboratory tests, and dynamic flow imaging procedures are assigned.

PCS 413. Instrument Calibration and Electronics. (3-4-5 hours)
Prerequisite: PCS 412

Basic electronics is covered and the calibration of nuclear medicine laboratory systems is performed. The quality control criteria for imaging and counting systems are examined. An essential part of this course is the energy and intensity calibration of a NaI detector.

RTH 306, 316, 326. Radiation Therapy Technology. (0-30-10 hours)

Experience in the Radiation Oncology Division including patient positioning, treatment techniques, and record keeping and verification procedures is given.

RTH 305, 315, 325. Principles of Radiation Oncology. (5-0-5 hours)

A comprehensive presentation of oncologic principles including instruction in both medical and physical aspects of cancer treatment is given. An introduction to computer techniques and treatment planning will be included.

School of Dentistry

(Certain courses listed here show two numbers following the course titles, i.e. (44-1). These indicate clock hours—credit hours).

Clinical Practice Management

CPM 513. Clinical Practice Management. (44-1 hours)
Prerequisites: Satisfactory completion of all series 511 and 512 preclinical courses

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 521. Clinical Practice Management. (28-1 hours)
Prerequisites: Satisfactory completion of all series 513 preclinical courses and CPM 513

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 522. Clinical Practice Management. (80-1 hours)
Prerequisites: Satisfactory completion of all series 521 preclinical courses and CPM 521

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 523. Clinical Practice Management. (80-1 hours)
Prerequisites: Satisfactory completion of all series 522 preclinical courses and CPM 522

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 531. Clinical Practice Management. (95-1 hours)
Prerequisites: Satisfactory completion of all series 523 preclinical courses, CPM 523, COM 520, OSD 531 and OSD 532

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 532. Clinical Practice Management. (111-1 hours)
Prerequisites: Satisfactory completion of all series 531, CPM 531, COM 520 and OSD 542

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 533. Clinical Practice Management. (154-1 hours)
Prerequisites: Satisfactory completion of all series 532 preclinical courses and CPM 532

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 541. Clinical Practice Management. (232-1 hours)
Prerequisites: Satisfactory completion of all series 533 preclinical courses and CPM 533

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 542. Clinical Practice Management. (239-1 hours)
Prerequisites: Satisfactory completion of all series 541 preclinical courses, OSD 542, PER 542, and CPM 541

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

CPM 543. Clinical Practice Management. (446-1 hours)
Prerequisites: Satisfactory completion of all series 542 preclinical courses and CPM 542

The practice of dentistry in the clinic environment during which the student is evaluated on his participation, productivity, neatness and orderliness, and the maintenance of dental health records.

Community Dentistry

(All dental courses taught in one time block of five days)

CMD 511. Orientation to the Profession. (3-0-3 hours)

Dentistry as a profession is traced historically through major controversies. Vocational opportunities for the dentist are considered from the standpoint of scope, challenges, and satisfactions. General principles of communication are taught through class participation. Community clinics, family homes, and dental offices are visited to illustrate the didactic information discussed in the classroom.

CMD 522. Epidemiology and Biostatistics. (3-0-3 hours)

The history and principles of epidemiology are addressed with illustrations from studies involving the control of dental caries. Practical experience is gained

through the performance of educational preventive, and research activities upon elementary school children. Fundamental statistical procedures are used to summarize and analyze the results of the field data. Students present conclusions of field studies orally as scientific reports.

CMD 540. Ethics, Jurisprudence, Practice Location, Dental Care Delivery. (3-0-3 hours)

Formal presentations and student teams are utilized to address the four subject areas. Opportunities are provided for students to gain practical experience in the subject areas through assigned topics. Findings and conclusions of the students are presented at the close of the course utilizing the techniques of mock trial, role-playing, video tape, and panels.

DH 412. Introduction to Public Health. (2-0-2 hours)

The history, philosophy, and definition of public health are presented, and the relationship of public health to dental hygiene is explored. Sociological determinants of public health programs are identified as well as the role of epidemiological evaluation. The scope and dental relevance of public health are illustrated by examples of local, state, national, and international programs.

Dental Materials

DPS 511. Dental Materials I. (2-0-2 hours)

This course covers the elements of physics, chemistry and metallurgy of preventive, restorative and prosthetic dental materials. Considerable emphasis is placed on the effect of manipulation upon physical properties and clinical behavior of the materials.

DPS 512. Dental Materials II. (1-0-1 hours)

This is a continuation of DPS 511.

Endodontics

ENDO 521. Fundamentals of Endodontics. (3-1-4 hours)

The basic lecture and laboratory course which presents diagnosis, treatment planning, treatment implementation of dental pulp pathosis from coronal access. Prevention of pulp disease and pulp protection is stressed.

ENDO 533. Advanced Endodontics. (1-0-1 hours)

Includes presentation of endodontics as a specialty, its history, surgical procedures and management of complications and dental emergencies. Special considerations in restoration of endodontically treated teeth are covered.

CS 542. Endodontics Seminar. (1-0-1 hours)

Discussion of endodontic literature, review of management of dental emergencies and selected topics of special current interest.

Microbiology (Oral Biology)

MIBD 522. Oral Microbiology and Infectious Disease I. (5-0-5 hours)

Lectures on microbiology and immunology including microbial physiology, metabolism, genetics and mechanism of pathogenesis, and basic principles of immunology and immunological responses.

MIBD 523. Oral Microbiology and Infectious Disease II. (4-0-4 hours)

Prerequisites: Biochemistry 510-511, MIBD 522.

Lectures and laboratory on infectious diseases with special emphasis on those with oral manifestations. The laboratories provide experiences in application of microbiology to the practice of dentistry.

MIB 300-301. Microbiology for Dental Hygienists. (4-0-4 hours)

Prerequisite: Biochemistry

Lectures on principles of microbiology, immunology and infectious disease and their applications to the practice of dental hygiene.

MIB 200-201. Microbiology for Dental Assistants. (4-0-4 hours)

Lectures and demonstrations on fundamental principles of microbiology, aseptic procedures, and sterilization and disinfection for dental assistants.

Occlusion

OCC 511. Oral Anatomy. (3-2-5 hours)

Lectures on Oral Anatomy and Tooth Morphology. Laboratory procedures designed to emphasize the anatomy of individual teeth and improve eye-hand coordination.

OCC 512. Introductory Occlusion. (1-3-4 hours)

Prerequisite: OCC 511

A lecture series depicting mandibular movement in the frontal, sagittal and transverse planes and how these movements affect cusp placement, cusp height, and ridge and groove direction. Laboratory exercises apply this knowledge to practical waxing procedures.

OCC 513. Occlusal Equilibration. (1-1-2 hours)

Prerequisite: OCC 512

Lectures, laboratory and clinical procedures demonstrating the techniques required for evaluating an occlusion of a natural dentition and establishing the intercuspal position coincidental to centric relation.

OCC 522. Occlusion for Artificial Dentition. (1-2-3 hours)

Prerequisite: OCC 513

Lectures and laboratory exercises to determine the spatial relations of an artificial dentition to establish a bilateral balanced occlusion using a tooth form with cusps and a neutrocentric occlusion with a tooth form without cusps.

OCC 523. Evaluation of Registrations. (1-1-2 hours)

Prerequisite: OCC 513

Lectures and clinical exercises to determine the accuracy of various methods and materials used in registering centric relation.

OCC 532. Occlusion Seminar. (2-0-2 hours)

Prerequisite: OCC 523

An in-depth review of current and classic articles in the literature relative to occlusion.

CS 543. Clinical Seminar. (3-0-3 hours)

Each student prepares a case presentation of a patient describing the diagnosis, treatment plan and sequence of treatment to accomplish the comprehensive care of that

patient. Maximum utilization is made of all audio-visual methods during the presentation.

Core Curriculum. (1-1 hours)

A lecture series designed to provide a unified understanding for a multi-disciplinary approach to common problems associated with occlusion.

Oral Biology—Anatomy

ANM 325. Head and Neck Anatomy for Dental Hygiene. (5-0-5 hours)

Prerequisite: ANM 320. Anatomy and Physiology

This course is composed of two portions. The oral histology—embryology portion of this course will deal with the development of the head and neck including the oral cavity and associated structures. The histology of the oral mucosa, salivary glands and teeth will also be considered. In addition, the gross anatomy portion of this course will emphasize the clinical importance of the classical descriptions of the muscles, nerves, and blood vessels of the head and neck region. Particular emphasis will be placed on the muscles of facial expression, muscles of mastication, fifth and seventh nerve distributions, and the carotid and jugular vasculature pattern.

ANMD 511. General Microanatomy. (3-1-5 hours)

Prerequisite: College Biology

The course provides an in-depth study of the cytology and histology of the primary tissues utilizing tissues from the oral cavity. The course includes ten hours of general human embryology. The objectives of the course is to correlate the structure and function of cells to clinical problems.

ANMD 513. Applied Head and Neck Anatomy. (1-3-4 hours)

Prerequisite: ANMD 511. General Microanatomy and Embryology

In this course, the lectures (30% of total time) correlate the anatomical information learned in the laboratory (70% of total time) to clinical problems, and also ties the regional approach of laboratory anatomy to a systemic physiological anatomy. The students are required to satisfactorily dissect the head region. Models and movies on prodissections are available to supplement dissection.

ANMD 515. Applied Head and Neck Anatomy. (1-3-4 hours)

Prerequisite: ANMD 513

This course is a continuation of ANMD 513, in which the students dissect the superficial and deep structures of the neck region. Correlation of the anatomical information learned to clinical problems is emphasized and practiced by students during the course.

N.S. 514. Neuroscience I. (1-1-0 hours)

Prerequisites: ANMD 511

An interdepartmental course which encompasses the neurofunctional philosophies and concepts of embryology, histology, organology, anatomy, physiology and pharmacology, with emphasis on the clinical application to the stomatognathic system.

ANMD 517. Dental and Systemic Histology. (3-1-4 hours)

Prerequisite: ANMD 411. General Microanatomy and Embryology

A continuation of microanatomy relating the tissues

of the organs and organ systems which comprise the functional systems of the adult human and involving the clinical consideration of oral diagnosis and treatment, and in addition specific emphasis on those tissues of the oral cavity which contribute to the development of the teeth and their supporting periodontal structures.

ANMD 532. Systemic Anatomy. (2-6-2 hours)
Prerequisites: ANMD 513 and 515

The students, through laboratory dissection, study of models and movies on prodissection, learn the anatomical organization of axilla, thorax, abdomen, pelvis, axilla, upper and lower extremities. The dissection manual and the lectures help the students in studying the human body on a systemic basis. Clinical correlation is emphasized throughout the course.

Oral Biology—Biochemistry

BCM 510. Biochemistry for Dentistry. (5-0-5 hours)
Prerequisite: Organic Chemistry

Biochemistry for dentistry initially concerns itself with the chemical components of the body. Emphasis is placed upon molecular and biochemical concepts of dentistry. Presentations are concerned with acid base balance, enzyme action, the chemistry and metabolism of carbohydrates, lipids, and proteins. Various aspects of clinical chemistry are stressed as they are related to the clinical practice of dentistry.

BCM 511. Biochemistry for Dentistry. (5-0-5 hours)
Prerequisite: BCM 510, Biochemistry for Dentistry

This course continues the study of the chemical components of the body. Presentations concern the chemistry and metabolism of nucleic acids, protein synthesis, digestion and absorption, the role of vitamins at the molecular level, and the chemistry and metabolism of calcified tissues. The biochemistry of muscle contraction and blood clotting are also included.

BIO 301. Biochemistry of Dental Hygiene. (5-0-5 hours)
Prerequisite: Inorganic Chemistry

Lectures on organic chemistry and the chemical components of the body. Emphasis is placed upon the molecular and biochemical concepts important to the dental hygienist.

OBIO 533. Problems in Oral Biology. (5-0-5 hours)
Prerequisite: All Oral Biology courses to date

An intensive review of the biological effects of radiation and an in-depth study of fluoride as related to the practice of dentistry. A field trip to the Savannah River Plant is included in the course.

OBIO 541. Problems in Oral Biology. (3-0-3 hours)
Prerequisite: OBIO 533, Problems in Oral Biology

The initial phase of OBIO 541 is concerned with cranial nerve testing. Aspects of experimental dental procedures are presented by basic and clinical scientists.

OBIO 542. Problems in Oral Biology. (2-0-2 hours)
Prerequisite: OBIO 541, Problems in Oral Biology

Various aspects of experimental dental procedures are presented by basic and clinical scientists.

Oral Biology—Pharmacology

DA 124. Pharmacology and Anesthesiology for Dental Assistants. (3 hours)

Prerequisite: High school biology and chemistry

Pharmacology for dental assistants is a basic course taught at an elementary level with emphasis on principles of drug action, taking an accurate health history, medical and pharmacological ramifications of that history, and therapeutic agents used in dentistry. The major area of emphasis is concerned with chemotherapy of infection and pain control.

PHM 311. Pharmacology and Anesthesiology. (4-0-4 hours)

Prerequisites: ANM 320 and 321, Human Anatomy and Physiology

PHM 311 is a basic pharmacology course for the dental hygienist. As a member of the health team, the hygienist may be called upon to use certain topical agents, take and understand a patient health history, acquire and inventory certain medications, assist in prescription writing and understand the emergency drug tray. Major emphasis is on principles, dental therapeutic agents and an understanding of patient health and disease as related to pharmacology.

PHMD 521. General Pharmacology. (4-0-4 hours)
Prerequisite: Biochemistry, Physiology (some)

PHMD 521 is a general course in Pharmacology for dental students serving as a foundation for understanding of pharmacotherapeutics and medical drugs which dental patients use. This course emphasizes principles of drug action; drug categories are studied in detail using a systemic approach including nervous system (autonomic and central), cardiovascular, renal, hematological, endocrine and G.I. This course or its equivalent is a prerequisite for PHMD 531.

PHMD 531. Dental Therapeutics. (3-0-3 hours)
Prerequisite: PHMD 521

PHMD 531, Dental Therapeutics is a continuation of PHMD 521 with an emphasis on drugs used by dentists. Posology and prescription writing are emphasized. Topics covered are drugs used for chemotherapy of infection and for control of pain including the psychological aspects of patient care. In addition, special problems in drug therapy of oral tissues are emphasized.

Oral Biology—Physiology

PHYD 513. Human Physiology. (3-0-0 hours)
(Progress Report)

Prerequisites: Anatomy Histology, Biochemistry

An integrated study of the functional systems of the human body ranging from molecular interaction to organismic behavior. Special emphasis is placed on those principles and concepts related to dental practice.

PHYD 520. (5-1-7 hours)

Prerequisite: PHYD 513

Continuation of PHYD 513.

N.S. 514. Neuroscience II. (3-1-5 hours)

Prerequisite: N.S. 514, Neuroscience I

Continuation of Neuroscience I.

Oral Medicine**OMD 511. Oral Diagnosis. (4-1-5 hours)**

An introduction to the technique of oral physical examination and collection of diagnostic data. The student is introduced to patient management in the clinic.

OMD 512. Introduction to Physical Diagnosis. (2-0-2 hours)

Prerequisite: OMD 511.

The techniques of physical examination routinely performed in a dental office are described and practiced. The collection and correlation of all pertinent health data and its importance in the diagnostic process is discussed.

OMD 531. Nutrition. (1-0-1 hours)

Prerequisites: Biochemistry, Physiology, Anatomy

Various aspects of nutritional counseling with patients are practiced. Some of the major nutritional problems encountered in the clinical practice of dentistry are discussed.

OMD 532. Oral Medicine I. (2-0-2 hours)

Prerequisites: Biochemistry, Anatomy, Microbiology, Physiology, OMD 511, OMD 512

This course considers the oral manifestations of systemic disease and the effect of oral disease on systemic health.

OMD 533. Oral Medicine II. (4-0-4 hours)

Prerequisite: OMD 532

This is a continuation of OMD 532 largely in a problem solving format.

OMPO 533. Practitioner Orientation I. (2-0-2 hours)

This course is an introduction to the fundamental principles of practice administration.

OMPO 541. Practitioner Orientation II. (2-0-2 hours)

Prerequisite: OMPO 533

A continuation of the principles of practice administration. The student is required to prepare a written statement on his philosophy of practice.

OMPO 542. Practitioner Orientation III. (2-0-2 hours)

Prerequisites: OMPO 533, OMPO 541

A continuation course on the principles of practice administration. The student is required to prepare a detailed manual of practice procedures. This can be utilized as a training manual.

OMTP 513. Principles of Treatment Planning I. (1-0-1 hours)

This course is an introduction to the principles of treatment planning. The fundamental requirements of proper oral therapy are presented.

OMTP 521. Principles of Treatment Planning II. (1-0-1 hours)

Prerequisite: OMTP 513

This is a continuation of the principles of treatment planning. Practice is begun in applying the principles to clinical problems.

OMTP 522. Principles of Treatment Planning III. (1-0-1 hours)

Prerequisites: OMTP 513, OMTP 521

This is a continuation of principles of treatment planning as they apply to clinical problems. More com-

plex types of problems are considered commensurate with the students progress in didactic courses.

OMTP 523. Principles of Treatment Planning IV. (1-0-1 hours)

Prerequisites: OMTP 513, OMTP 521, OMTP 522

This is a continuation of the previous course. Application of fundamental principles to increasingly complex problems is practiced.

OMTP 532. Principles of Treatment Planning V. (1-0-1 hours)

Prerequisite: All previous OMTP courses

This course utilizes case presentations by upper class students to illustrate the types of problems encountered and how the principles of treatment planning were applied.

OMTP 541. Principles of Treatment Planning VI. (1-0-1 hours)

Prerequisite: All previous OMTP courses

This is a continuation of the clinical application of the principles of treatment planning.

CS 543. Clinical Seminar in Principles of Treatment Planning VII. (Conjoint courses with the Department of Occlusion.) (1-0-1 hours)

Prerequisite: All previous OMTP courses

Each student presents a fully documented case in which he has personally applied the principles of treatment planning.

Oral Pathology**PATH 522. General Pathology I. (4-2-5 hours)**

Prerequisites: Histology, Biochemistry and Physiology

This course embodies the basic principles of disease and abnormal anatomy. Considerable attention is given to the understanding of the mechanisms underlying biological change at the cell and subcellular level. The parameters of cell injury, inflammation, carcinogenesis wound healing, living agents of disease and inborn errors of metabolism are studied in-depth.

PATH 523. Oral Pathology I. (4-0-4 hours)

Prerequisites: Gross Anatomy, Embryology, Histology, General Pathology I, Biochemistry and Physiology

With the use of a problem solving oriented programmed test and lecture-discussion periods to reinforce learning, course objectives for the student include: an awareness and understanding of the etiology, pathogenesis and pertinent clinico-pathologic aspects of oral and paraoral disease; to establish a diagnosis, prognosis and general guidelines or suggestions for patient care. The various classes of pathoses include: benign premalignant and malignant neoplasms of oral and odontogenic origin; diseases and tumors of the salivary glands and bone; infectious diseases; oral manifestations of dermatologic diseases.

PATH 531. Oral Pathology II. (3-0-3 hours)

Prerequisite: PATH 523, Oral Pathology I

This course is a continuation of PATH 523 Oral Pathology I and employs the same educational format and general objectives. In addition, the biopsy diagnostic method is discussed. The specific classes of pathoses include: developmental disturbances; sequela to dental caries, i.e. pulpal and periapical disturbances and spread

of dental infection; wound healing; oral injuries; reactive proliferations; regressive alterations and periodontal diseases.

PATH 532. General Pathology II. (4-3-5 hours)
Prerequisites: General Pathology I and Gross Anatomy (may be taken concurrently)

This course examines the disease processes that effect the various organ systems of the human body (not including the oral and perioral regions). Discussion centers around the etiology, pathogenesis, clinical implications and sequelae of various diseases. Disease alterations are examined at the gross and microscopic level in laboratory sessions. Correlation of systemic diseases of importance in dentistry are emphasized.

PATH 542. Oncology. (2-0-2 hours)
Prerequisites: General Pathology I and II and Oral Pathology I and II

This is a multidisciplinary lecture-discussion course including dental and medical aspects of the management of patients with head and neck tumors. The general objectives of the course are to provide the student with an awareness and understanding of oncologic diagnostic principles and particularly the principal modes of treatment including chemotherapy, radiotherapy, surgical care, reconstructive surgery, maxillo-facial prosthodontics and emotional reaction to cancer. Recent advances in cancer research are discussed.

DA 118. Pathology. (2-0-2 hours)
Prerequisites: Anatomy and Physiology

This course deals with the general principles, causes and underlying mechanisms of disease phenomena. The disease entities include cell injury, inflammation, neoplasia, cardiovascular and respiratory disease, disturbances of the genito-urinary system, disturbances of the breast and digestive system. Special attention is devoted to diseases of the oral cavity. These include: pulpal and periapical disturbances reactive and degenerative changes, developmental disturbances and odontogenic tumors and cysts. The educational format includes lectures, slide discussion and movies.

DH 406. Pathology. (4-0-4 hours)
Prerequisites: Anatomy, Biochemistry and Physiology

This course deals with the general principles and underlying mechanisms of disease phenomena. The disease entities include cell injury, inflammation, living agents of disease, neoplasia and metabolic disturbances. The causes, mechanisms and clinical implications of systemic diseases will be considered. Special attention is devoted to diseases of the oral cavity. These include: oral neoplasia, odontogenic tumors and cysts, salivary gland disturbances, bone diseases and pulpal and periodontal pathosis. The educational format includes lectures, slide discussion and movies.

Oral Surgery

OSD 513. Local Anesthesia. (2-0-2 hours)
Prerequisites: Anatomy, Physiology

Local anesthesia is the introductory course to pain control and patient management. The pharmacology of local anesthetic agents is presented in detail. The clinical techniques of local anesthetic administration are presented in lecture and practiced in the laboratory.

OSD 532. Fundamentals of Oral Surgery. (2-0-2 hours)
Prerequisite: Local Anesthesia, Basic Sciences

The course consists of lectures designed to provide the student with basic information necessary to successfully complete clinical requirements in oral surgery and to subsequently perform those surgical techniques which are within the scope of a general practitioner. Introductory lectures on Hospital Dentistry are presented.

OSD 533. Sedation and Anxiety Control. (2-0-2 hours)
Prerequisites: Basic Sciences, Local Anesthesia, Fundamentals of Oral Surgery.

This course is designed to present the basic concepts of sedation along with its rationale. The pertinent physiology and pharmacology information is presented. The techniques of inhalation and intravenous sedation are discussed and practiced in the laboratory.

OSD 541. Advanced Oral Surgery. (3-0-3 hours)
Prerequisite: Fundamentals of Oral Surgery

Advanced Oral Surgery consists of 32 hours of lectures covering the broad scope of oral surgical procedures including orthognathic surgery, pre-prosthetic surgery, treatment of infections, management of tumors and cysts, surgical treatment of diseases of the temporomandibular joint, treatment of facial trauma and principles of implantation and transplantation.

OSD 550. Hospital Clerkship.
Prerequisites: Fundamentals of Oral Surgery, Advanced Oral Surgery, and Sedation I and II

Hospital Clerkship is a full-time, one week activity designed to give the dental student an introduction to hospital dentistry and orientation to the role of the dentist in the hospital. Students are assigned to dental services at University and Talmadge Hospitals where they take night call twice and treat oral surgery patients in the clinics and operating rooms. The student becomes familiar with methods of admission and discharge of patients, the hospital chart, initiating hospital orders and obtaining and providing consultations for other hospital services.

Two students at a time participate in the Clerkship for one week. The week extends from 7:25 a.m. Monday to noon on Saturday. Two nights "on call" at University Hospital are included.

Orthodontics

DH 318. Growth and Development. (1-0-1 hours)
Prerequisite: Oral Anatomy

This course will consider the physical and psychological growth and development of the individual from birth through adolescence. Strong emphasis will be placed on the growth and development of the dentition and face. Basic concepts of psychological development will be stressed in order to help the dental hygienist understand her young patients and design a preventive dental program suitable for their maturational level.

ORTHO 521. Introductory Orthodontics. (2-0-2 hours)
Prerequisites: Anatomy 511, 512, 513; Occlusion 511, 512, 513; Physiology 513

Orthodontics 521 is an introduction to malocclusion as one of the three primary diseases or disorders which affect the mouth and associated structures. This course is designed to provide the student with basic tools and skills by which he can observe, measure, evaluate, manipulate

and communicate occlusal-facial relationships in a rational objectable fashion.

CS 542. Clinical Seminar in Orthodontics. (1-0-1 hours)

Prerequisites: Orthodontics 521, Pedodontics, Occlusion

This seminar series is comprised of a series of classic malocclusion types, their etiology, diagnosis and treatment plan. Patient records will be presented which will illustrate the care and management of each type. The students will be required to abstract the records of a patient which has been treated in the Graduate Orthodontic Clinic. The abstract must include a critique of the results.

Pedodontics

PEDO 522. Preclinical Pedodontics. (3-1-6 hours)
(Lectures-Labs-Credit hours)

Didactic material and technique laboratory exercises necessary for Clinical Pedodontics.

Periodontics

DH 400. Dental Hygiene Clinic. (2-0-2 hours)

A thorough discussion of the normal and diseased periodontium including etiology, diagnosis and rationale for various treatment procedures.

PER 511. Periodontics. (2-0-2 hours)

This course is concerned with the clinical and histologic aspects of the normal periodontium and the chronic inflammatory periodontal diseases. Local etiologic factors, patient education, oral hygiene, prevention and an introduction to instrumentation are also covered.

PER 512. Periodontics. (2-0-2 hours)

Prerequisite: PER 511

This course is concerned with instrumentation, the acute and dystrophic periodontal diseases as well as the history, examination, diagnosis, and prognosis of patients with periodontal disease.

PER 513. Periodontics. (2-0-2 hours)

Prerequisite: PER 512

PER 513 completes the periodontal diseases with a discussion of periodontal trauma from occlusion. The subject of periodontal surgery is initiated with general considerations and follows with a detailed coverage of the gingivectomy and periodontal flap operation.

PER 522. Periodontics. (1-1-2 hours)

Prerequisite: PER 513

A laboratory session provides students with the opportunity to perform a gingivectomy and flap operation utilizing models. The remainder of the quarter is concerned with the osseous lesions in terms of diagnosis, management and wound healing.

PER 523. Periodontics. (1-0-1 hours)

Prerequisite: PER 522

The various mucogingival problems are covered with emphasis on the mucogingival surgical procedures which

are employed and the related wound healing studies. The role of systemic diseases in the etiology of periodontal disease, dilantin gingival enlargement and the relationships between periodontics and restorative dentistry are also covered.

PER 523C. Periodontics Clinic. (0-1-1 hours)

By the end of the sixth quarter, students must have completed the necessary procedures to establish periodontal health for a minimum of four patients.

PER 533C. Periodontics Clinic. (0-3-3 hours)

Prerequisite: PER 523C.

By the end of the ninth quarter, students must have completed the necessary procedures to establish periodontal health for a minimum of eight patients. Students should participate in one surgical procedure.

PER 542. Periodontics. (2-0-2 hours)

Prerequisite: All other periodontics courses

This seminar course serves to review all previous material as well as providing an opportunity for discussing various aspects of patient management.

PER 543C. Periodontics Clinic. (0-5-0 hours)

Prerequisite: PER 533C

By the end of the twelfth quarter, students are to have established and maintained periodontal health of all patients under their care. They must have participated in a total of six surgical procedures.

Prosthodontics

OCC 522. Occlusion of the Artificial Dentition. (1-1-2 hours)

Prerequisite: OCC 513

Lectures and laboratory sessions on the various concepts of occlusion for the artificial dentition, including physiology of occlusion, philosophy, and technique of arrangement of anatomic and non-anatomic denture teeth.

PRO 533. Advanced Prosthodontics. (1-1-2 hours)

Prerequisites: OCC 522 Occlusion of the Artificial Dentition; RPD 523 Removable Partial Dentures; COM 520 Complete Dentures

Lecture and laboratory course which is primarily concerned with immediate dentures, overdentures and advanced concepts of removable partial denture design.

RPD 523. Removable Partial Dentures. (3-1-4 hours)

Clinical-laboratory technique course designed to teach the fundamentals of good RPD design and fabrication. Considerable emphasis is placed on examination, sequential treatment planning, and mouth preparation inclusive of occlusal modifications to assure optimal stability and occlusal harmony during function.

COM 520. Complete Dentures. (3-7-10 hours)

Prerequisites: OCC 522 Occlusion of the Artificial Dentition; RPD 523 Removable Partial Dentures

Lecture, laboratory and clinical experiences on the various aspects of complete denture construction are presented.

Radiology

RADD 513. Radiology. (1-0-1 hours) (Lecture)

Prerequisite: College level physics

This course covers the fundamentals of dental radiographic technique and interpretation.

Restorative Dentistry

DLT 101. Dental Materials. (Dental Technician)

This lecture course covers the physics, chemistry and metallurgy of dental materials.

A brief introduction to engineering mechanics will also be given.

The effects of manipulation and environmental conditions on the physical properties will be discussed.

DPS 300. Dental Materials. (Dental Hygiene)

This lecture course covers the effects of manipulation and handling on the properties of materials used in preventive, restorative and prosthetic dentistry. Where essential to understanding, chemical and physical characteristics are discussed.

DAU 511. Dental Auxillary Utilization. (1 hour)

Lecture and practice in the following:

1. Care and maintenance of dental equipment
2. Operation of dental equipemnt
3. Chair, patient and operator position
4. Instrument sterilization procedure

DAU 512. Dental Auxillary Utilization. (1 hour)

Prerequisite: DAU 511

Lectures and clinical practice in the sequential use of dental instruments, the basics of proper instrument transfer between operator and assistant, and the isolation of the operatory field for see-ability.

DAU 542. Dental Auxillary Utilization. (4 hours)

Prerequisites: DAU 511, 512

In the clinical setting the student learns to properly utilize a dental assistant in a 4 handed, sit down dental practice.

TEAM 532. Team Dentistry. (3 hours)

Prerequisites: DAU 511, 512, 543

This course is concerned with the basics of TEAM dentistry. All aspects of dental management are covered, with a heavy emphasis on interpersonal relations skills.

TEAM 543. Team Dentistry. (6 hours)

Prerequisites: DAU 511, 512, 543, TEAM 532

Management concepts are presented in more depth with the student functioning in various management roles within a simulated private practice. This allows the student to further develop his management skills by the actual management of his own dental team.

OPD 511. Operative Dentistry. (2-3-5 hours)

The introductory course in operative procedures which teaches the principles and techniques of conservative cavity preparation and restoration of teeth with silver amalgam and esthetic restorative materials. The laboratory consists of treating simulated natural teeth and extracted human teeth.

OPD 512. Operative Dentistry. (2-2-4 hours)

Prerequisite: OPD 511 Operative Dentistry

This course is a continuation of OPD 511 that includes the use of silver amalgam in more extensively involved teeth. The later segment of the quarter introduces the student to supervised patient treatment applying operative principles and techniques thus far acquired.

OPD 513. Operative Dentistry. (1-2-3 hours)

Prerequisites: OPD 511. Operative Dentistry; OPD 512. Operative Dentistry; OPD 514. Operative Dentistry; FIX 522. Fixed Partial Prosthodontics; FIX 531. Dental Ceramics; DPS 511. Dental Materials

This course is an introduction to a variety of direct golds, the practical clinical application and the placement in a selection of preparations on simulated natural teeth.

OPD 514. Operative Dentistry. (3-5-8 hours)

Prerequisites: OPD 511. Operative Dentistry; OPD 512. Operative Dentistry; DPS 511. Dental Materials

This basic course encompasses the principles and techniques encountered in preparation of teeth and subsequent fabrication of gold castings for single tooth restorations.

FIX 522. Fixed Partial. (4-5-9 hours)

Prerequisites: OPD 511. Operative Dentistry; OPD 512. Operative Dentistry; OPD 514. Operative Dentistry; DPS 511. Dental Materials

Fundamentals of preparations, retainer and pontic design of fixed partial prosthetics are given didactically. These principles are applied to the construction of one maxillary anterior, one maxillary posterior and one posterior fixed partial fabricated from cast gold on simulated natural teeth.

RES 522C. Restorative Clinic. (0-2-2 hours)

Prerequisites: OPD 511, 512; DAU 511, 512; DPS 511

A variety of operative procedures are performed on patients in a closely supervised clinical environment.

FIX 531. Dental Ceramics. (1-2-3 hours)

Prerequisites: OPD 511. Operative Dentistry; OPD 512. Operative Dentistry; OPD 514. Operative Dentistry; FIX 522. Fixed Partial Prosthetics; DPS 511. Dental Materials

The fabrication and clinical application of the porcelain jacket crown, porcelain-fused-to-metal and porcelain inlay restorations are studied. Laboratory activity includes fabricating a porcelain-fused-to-metal crown, a porcelain inlay and use of ceramic pigments in characterization and shade control.

RES 531C. Restorative Clinic. (0-4-4 hours)

Prerequisites: OPD 511, 512, 514; DAU 511, 512; DPS 511; FIX 522; RES 522C

A variety of restorative procedures are performed on patients in a closely supervised clinical environment.

RES 533C. Restorative Clinic. (0-7-7 hours)

Prerequisites: OPD 511, 512, 514, 513; DAU 511, 512; DPS 511; FIX 522, 531; RES 522C, 531C

A variety of restorative procedures are performed on patients in a closely supervised clinical environment.

RES 541C. Restorative Clinic. (0-5-5 hours)

Prerequisites: OPD 511, 512, 514, 513; DAU 511, 512; DPS 511; FIX 522, 531; RES 522C, 531C, 533C

A variety of restorative procedures are performed on

patients in a supervised comprehensive clinical environment.

RES 542C. Restorative Clinic. (0-5-5 hours)
Prerequisites: OPD 511, 512, 514, 513; DAU 511, 512; DPS 511; FIX 522, 531; RES 522C, 531C, 533C, 541C

A variety of restorative procedures are performed on patients in a supervised comprehensive clinical environment.

RES 543C. Restorative Clinic. (0-4-4 hours)
Prerequisites: OPD 511, 512, 514, 513; DAU 511, 512; DPS 511; FIX 522, 531; RES 522C, 531C, 533C, 541C, 542C

A variety of restorative procedures are performed on patients in a supervised comprehensive clinical environment.

Bioclinical Seminars

BCS 511. Bioclinical Seminar. (2-0-2 hours)

This is the first in the freshman series of bioclinical seminars that are designed as interdisciplinary courses to integrate basic biology and the clinical sciences. This course correlates inflammation and periodontal disease.

BCS 512. Bioclinical Seminar. (2-0-2 hours)

This is the second in the freshman year bioclinical seminar series and presents the biological and clinical aspects of diabetes and the role of the dentist concerning this disease.

BCS 513. Bioclinical Seminar. (2-0-2 hours)

This, the third in the first year dental student bioclinical seminar series, is a presentation of various current research projects being conducted by students and faculty and is intended to acquaint the student with dental research.

BCS 521. Bioclinical Seminar. (2-0-2 hours)

This is the first seminar and the topics relate to muscle physiology specifically in relation to deglutation, and related clinical problems.

BCS 522. Bioclinical Seminar. (2-0-0 hours)

This is the second seminar in the series. The topics cover the Immunological Basis of Oral Disease, correlating the basic biology to the clinical aspects.

BCS 523. Bioclinical Seminar. (2-0-0 hours)

This is the third seminar in the series. The discussions are centered on genetic diseases and their oral implications, emphasizing the basic concepts of developmental biology in relation to clinical diseases.

School of Graduate Studies

Only those course numbers preceded by an asterisk are approved for credit by the School of Graduate Studies.

Anatomy

***ANM 701, 702. Gross Anatomy.** (5 hours each fall and winter)

A lecture and laboratory course which requires dissection of the human body.

***ANM 703. Neuroanatomy.** (4 hours. Winter)

A study of the gross and microscopic structure of the human nervous system and organs of special sense.

***ANM 807. Embryology.** (5 hours)

A study of the fundamental principles of mammalian embryonic development. Subject matter includes germ cell formation, fertilization, implantation, placentation, and morphogenesis of the various systems of embryos of various ages.

***ANM 813. Histology.** (8 hours. Fall)

A study of the cells, tissues and the organs of man as related to their function.

***ANM 814. High Resolution Microscopy.** (5 hours. Spring)

A course in the basic technique in electron microscopy. Emphasis is placed on preparing of tissues for electron microscopy, operating the scanning and transmission electron microscopies, and preparing and interpreting electron micrographs.

***ANM 816. Histochemistry.** (4 hours. Spring and fall)

A lecture and laboratory course intended to provide advanced graduate students greater comprehension of the quantity, distribution, and function of the major chemical constituents of cells and tissues; to include proteins, fats, carbohydrates, nucleic acids, and enzymes. The laboratory will teach the more useful and effective methods for localization and quantitation.

***ANM 817. Special Topics in Gross Anatomy.** (3 hours. Spring)

Prerequisites: ANM 701, 702

This course involves special dissections on areas of human anatomy not normally dissected in Gross Anatomy 701. These dissections include the back, ear, sub occipital region, pelvis, foot and other topics. In addition, students will attend clinical conferences related to these areas of dissection.

***ANM 818. Advanced Developmental Anatomy.** (3 hours. Spring)

Prerequisite: ANM 807

This advanced course entails the study of both normal and abnormal human development. The program involves gross dissection and microscopic slide examination of the human fetus. The lectures will include in-depth discussion of embryological important clinical areas such as the cardiovascular and nervous system. In addition, students will observe various surgical corrective procedures.

***ANM 819. Special Topics in Neuroanatomy.** (3 hours. Spring)

Prerequisite: ANM 703 or permission of instructor

This course will be a brief review of basics including a complete brain dissection and slide study. The major time will be used to explore in depth some recent research relating to certain areas or systems. This will be accomplished by lectures by the faculty, special lecturers, and some student lectures in areas of their special interest.

***ANM 820. Special Topics in Cell Biology.** (3 hours. Winter)

Prerequisites: Histology and Biochemistry or equivalent

This course will provide an intensive review of the literature, and in some instances laboratory experience with a set of one or more tissues, cellular structures, tissues of cellular processes, or preparative or analytical methods. Topics will be selected during the prior quarter based on departmental and student needs.

***ANM 822. Advanced High Resolution Microscopy. (5 hours. As Required)**
Prerequisite: ANM 814.

A course in advanced and specialized techniques of electron microscopy. Included are recently described techniques for the use of scanning and transmission electron microscopy in medical research.

***ANM 901, 902, 903. Seminar in Anatomy. (1 hour each)**

***ANM 921. Investigation of a Problem. (Credit to be arranged)**

***ANM 930. Research. (for Dissertation or Thesis) (Credit to be arranged)**

Cell and Molecular Biology

***BCH 801-802. Biochemistry. (3 hours each quarter. Fall and winter quarters each year)**

A course sequence covering the chemistry and reactions of the constituents of living matter, metabolism and control mechanisms in whole organisms, organs, cells and subcellular systems, metabolic patterns and biosynthetic pathways.

***BCH 803. Topics in Biochemistry. (3 hours)**

Advanced treatment of selected topics such as cell biology, lipids, carbohydrates, nucleic acids, biological oxidation, neurochemistry, cancer, biology, and bio-membranes. Topics will vary yearly.

***BCH 804, 805. Experimental Biochemistry. (3 hours each quarter. Winter and spring quarters each year)**

The first course deals with the preparation and characterization of substances of biochemical significance. The second course includes experiments in biological oxidation, glucose metabolism, phosphatide and protein synthesis.

***BCH 807. Chemical Kinetics. (3 hours. Fall quarter)**

Theories of reaction velocity and their application to the understanding of reaction mechanisms.

***BCH 808. Physical Methods of Structure Determination. (3 hours. Fall quarter)**

Use of physical methods (UV, IR, NMR, ORD, ESR) to determine the structure of biochemically important monomers and polymers.

***BCH 809. Physical Biochemistry. (3 hours)**

Structure, properties, energetics, kinetics with particular reference to biopolymers. Three lectures, one conference, assigned readings and calculations.

***BCH 825, 826. Biochemical Disorders in Disease. (2 hours each)**

The application of biochemistry to the investigation of metabolic and degenerative diseases.

***BCH 830, 831, 832. Organic Reaction Mechanisms. (3, 3 and 2 hours respectively, to be taken in numerical sequence)**

Modern theories of organic chemistry with emphasis on reaction mechanisms of biochemical interest.

***CMB 901, 902, 903. Seminar in Biochemistry. (1 hour each)**

***CMB 904. Biochemistry Workshop. (1 hour)**

***CMB 921. Investigation of a Problem. (Credit to be arranged)**

***CMB 930. Research. (for Dissertation and Thesis) (Credit to be arranged)**

***MIB 701. Bacterial Immunity (5 hours)**

Principles of microbiology presented with emphasis on microbial physiology and genetics. Fundamental aspects of immunity and immunology are also discussed.

***MIB 702. Medical Microbiology: Bacteria, Viruses, Rickettsiae and Fungi. (5 hours)**

Prerequisite: MIB 701

Principles of microbiology with emphasis on the pathogenic bacteria, viruses, rickettsiae and fungi. Properties of the commoner organisms of this type and methods for cultivation, isolation and identification.

***MIB 703. Parasitology. (3 hours)**

Studies of the animal parasites of man and their mode of transmission.

***MIB 801. Immunology. (3 hours)**

Prerequisite: MIB 701

Biological, physical and chemical properties of antigens and antibodies; mechanisms of precipitation and agglutination reactions, cytotoxic reactions, mediated by antibody and complement; mechanisms of antibody formation; nature and mechanisms of hypersensitivity reaction and immunology and chemistry of blood group substance.

***MIB 802. Bacterial Genetics. (5 hours)**

Prerequisites: MIB 701-702

A consideration of nucleic acid metabolism and heredity in microorganisms including conjugation, transduction and transformation.

***MIB 803. Virology. (3 hours)**

Prerequisites: MIB 701-702

Studies of animal viruses, and newer techniques for cell culture and identification.

***MIB 804. Mycology. (3 hours)**

Prerequisites: MIB 701-702

Lectures and experimental studies of fungi pathogenic for man.

***MIB 805. Immuno-chemistry. (3 hours)**

Prerequisite: MIB 801

Advanced immunology with emphasis on the clinical aspects.

***MIB 806. Microbial Physiology. (5 hours)**

Prerequisites: MIB 701-702

Intermediary metabolism peculiar to microorganisms and its relationship to the effect of the chemical environment on the growth and death of microorganisms.

***MIB 808. Cell and Tissue Culture. (3 hours)**

Principles and techniques of cell and tissue culture. Emphasis on tissue culture techniques used in the study of viruses, bacteria and immunologic problems.

***MIB 810. Hematology. (3 hours)**

A consideration of fundamental hematologic concepts and practical laboratory procedures.

***MIB 812. Host-Parasite Relationship. (3 hours)**

This will be a series of lectures and seminars on the

biochemical and immunological relationships between infectious agents and their hosts. In cooperation with the staff of the Department of Medicine.

***CMB 901, 902, 903. Seminar in Microbiology.**
(1 hour each)

***CMB 904. Microbiology Workshops.** (1 hour)

***CMB 921. Investigation of a Problem. (Credit to be arranged)**

***CMB 930. Research. (for Dissertation or Thesis)**
(Credit to be arranged)

Endocrinology

***END 707. Introduction to Endocrinology.** (1 hour)

This course will give a general introduction to the concept of hormones, endocrine glands, and various mechanisms involved in regulation and control of endocrine secretion.

***END 801. Clinical Endocrinology.** (2 hours)

Clinical survey of the function of the hypothalamus, pituitary, adrenals, gonads, thyroid and pancreas, and the diagnosis and treatment of endocrine disorders associated with these glands.

***END 802. Advanced Clinical Endocrinology.** (6 hours)

A continuation of END 801 at an advanced level. Included is participation in the diagnosis, work-up, treatment and discussion of selected patients with various endocrine disorders.

***END 807. Clinical Aspects in Human Reproductive Physiology.** (5 hours)

The essentials in human reproduction and the application of present day knowledge in the promotion of fertility as well as fertility controls.

***END 808. Human Cytogenetics.** (3 hours)

A study of the relationships between chromosome morphology, function and disease. Consideration of chemical and physical nature of the chromosome, chromosomal aberrations, ploidy, significant of sex chromatin defects and genetics of cells in culture.

***END 809. Human Cytogenetics—Laboratory Techniques.** (3 hours)

A laboratory study of methods used in human cytogenetics including methods for culture and chromosome analysis and somatic cells, sex chromatin, autoradiography, photomicrography, meiotic preparations and solid tissue culture.

***END 810. Biochemical Methods in Endocrine Research.** (3 hours)

Work in specialized methods such as fractionation and individual estimation of steroids, determination of aldosterone, chromatography, and use of isotopes.

***END 811. Laboratory Procedures in Clinical Endocrinology.** (2 hours)

Studies and experience in the estimation of 17-ketosteroids, 17-ketogenic steroids, pregnandiol, urinary gonadotropics. PBI pregnancy tests, estrogens.

***END 812, 813. Chemistry of Steroids. (2 quarter sequence, 2 hours each)**

A survey of the chemical synthesis, degradation and general reactivity of various classes of steroids. Physical methods of characterization and methods of steroid determination are discussed with particular emphasis on steroids of biological importance.

***END 814. Endocrinology.** (4 hours)

Studies of the hormones of the hypothalamus, pituitary, the medulla, pancreas, thyroid, and parathyroid.

***END 815. Endocrinology.** (4 hours)

Studies of the secretion, biosynthesis, transport, metabolism and secretion of steroid hormones.

***END 816. Endocrinology.** (4 hours)

Prerequisites: END 814, 815

Study of the structure and biological activity of hormones, introduction to concepts of hormone-receptor interaction, mechanism of hormone action, special topics.

***END 817. Reproductive Physiology.** (4 hours)

A biologically oriented course dealing with spermatogenesis, ovulation, fertilization, implantation and pregnancy.

***END 818. Population Explosion and Contraception.** (2 hours)

This course will survey the problems of population explosion in the United States and around the world and discuss the safety and efficiency of current methods of contraception.

***END 819. Comparative Endocrinology.** (4 hours)

Consisting of fine structure and histology of endocrine glands and correlating this with function in man and other species.

***END 901, 902, 903. Seminar in Endocrinology.**
(1 hour each)

***END 921. Investigation of a Problem.**
(Credit to be arranged)

***END 930. Research. (for Dissertation or Thesis)**
(Credit to be arranged)

Medical Illustration

Prerequisite for all MIL courses: Medical Illustration student

***MIL 650, 651, 652. Medical Illustration Techniques I.** (33 hours)

Lectures, demonstrations and studio experience in the techniques and media of the medical illustrator including carbon dust, pen and ink, watercolor, air-brush, technical pens, and Leroy lettering equipment.

***MIL 658. Tri-Dimensional Techniques.** (4 hours)

Lecture and studio experience in the use of materials and techniques of sculpturing and casting three-dimensional biomedical subjects.

***MIL 659. Publication Art Techniques.** (2 hours)

Lecture and studio experience in the preparation of

illustrations for commercial reproduction from basic layout to camera-ready art.

***MIL 665, 666. Medical Photography. (4 hours)**
Lecture and studio experience in basic medical photography and film processing.

***MIL 678. Surgical Techniques. (3 hours)**
Lecture and clinical experience in performing two or more surgical procedures upon anesthetized animals. Also provides orientation to sterile technique and other operating room procedures.

***MIL 750, 751, 752. Surgical Observation/ Drawing. (18 hours)**
Observation and sketching of procedures and techniques related to various sub-specialties of surgery performed in the operating rooms of the medical center. The sketches are used as reference material for illustrations accomplished in the course in Medical Illustration Techniques II.

***MIL 753. Printing and Publishing. (1 hour)**
A study of the processes and methods used to reproduce art in printed form; also covers related areas of publishing such as typography, composition and platemaking.

***MIL 758, 759, 760. Advanced Medical Photography. (6 hours)**
Studio experience in the use of equipment and techniques of medical photography; includes copywork, patient and surgical photography, photomicrography, and basic motion picture photography.

***MIL 761, 762, 763. Medical Illustration Techniques II. (20 hours)**
Advanced studio experience in art techniques involving line, continuous tone and color in renderings of subjects related to anatomy, pathology and surgery.

***MIL 764. Survey of Learning Resources. (2 hours)**
An introduction to current instructional technology with emphasis on audio-visual resources. Includes experience in planning, production and presentation of visual material. (EDU 940 the Management of Learning Activities may be taken in place of this course.)

***MIL 775. Presentation of Visual Information. (2 hours)**
Lecture and studio experience in design and preparation of scientific information for presentation in the major visual communication media.

***MIL 780. Television. (2 hours)**
Lectures and studio demonstrations of equipment and production methods of closed circuit television, with emphasis on graphic techniques and program planning involving the medical illustrator.

***MIL 811. Pathology. (5 hours)**
Lectures and laboratory demonstrations on the basic principles of pathology and general physical manifestations of disease. Course requires attendance at autopsies and various pathology conferences.

***MIL 801. Medical Illustration—Independent Study. (20 hours)**
Time and credit for independent study and special experiences are given to each student during the third

year of study. The purpose is to provide the student with the opportunity to study in depth various aspects of the medical illustrator's role in biomedical communications and to prepare a professional portfolio of original artwork.

***MIL 802. Departmental Development & Administration. (2 hours)**
A study of procedures and problems associated with the development and administration of medical illustration service units.

***MIL 804. Scientific Exhibit Design. (2 hours)**
A supervised practicum in planning and designing a scientific exhibit. Included are practical aspects of production: scale drawings, selection of materials, functional design, shipping and display space limitation.

***MIL 928. Medical Illustration—Graphic Project. (16 hours)**
A visual presentation of medical information selected from the educational experiences encountered during participation in the Medical Illustration Program. The project should be indicative of the student's proficiency in the media and techniques of medical illustration created for one or more of the various methods of visual communication (exhibition, publication, slides, motion pictures, tri-dimensional model, television) and should include subject matter in anatomy, pathology, surgery, dentistry or a combination of these.

Medical Technology

***MTC 801. Laboratory Administration. (2 hours)**
An application oriented course of study in the concepts, procedures and techniques of management.

***MTC 810. Clinical Chemistry. (6 hours)**
Qualitative and quantitative aspects of analytical biochemistry as they are applied to diagnosis and therapy of human diseases. Includes didactic and laboratory studies; and individual directed projects.

***MTC 820. Clinical Hematology. (6 hours)**
Advanced concepts in hematology, practical application, clinical diagnosis and individual directed projects in hematology.

***MTC 840. Clinical Immunohematology. (6 hours)**
Principles and techniques of applied immunology related to problems of an immunohematology service (blood bank). Includes didactic and laboratory studies; and individual directed projects.

***MTC 850. Clinical Microbiology. (6 hours)**
In-depth study of pathological bacteriology, mycology, mycobacteriology, and anaerobic bacteriology as it relates to diagnosis and therapy of human disease. Includes didactic and laboratory studies; and individual directed projects.

Oral Biology

***Oral Biology 811. Head and Neck Anatomy. (2 hours)**
An advanced course in applied anatomy of the head and neck region.

***Oral Biology 822. Oral Biochemistry. (2 hours)**

The biochemistry of various structural and non-structural components of the body as related to oral health and disease.

***Oral Biology 833. Physiology of the Stomatognathic System. (2 hours)**

A guided survey of the physiology of the stomatognathic system.

***Oral Biology 841. Microbiological and Immunological Aspects of Oral Disease. (2 hours)**

An advanced course on oral microbiology, infection and resistance, and oral diseases of microbial origin.

***Oral Biology 852. Molecular Pathology. (2 hours)**

Concepts of disease, particularly oral diseases, at cellular and subcellular levels.

***Oral Biology 854, 855, 856. Oral Pathology. (1 hour each)**

An advanced course of the oral diseases, including etiology, pathogenesis, diagnosis, prognosis, and treatment.

***Oral Biology 863. Dental Pharmacology. (2 hours)**

Advanced pharmacology of interest to clinical and investigative dentistry.

***Oral Biology 901, 902, 903. Graduate Oral Biology Seminars. (1-2 hours)**

These seminars will include advanced topics of interest to dentistry and will be presented by both graduate students and faculty. An in-depth coverage of the literature is expected for each presentation.

Oral Biology 921. Investigation of a Problem. (Credit to be arranged)**Oral Biology 930. Research. (for Dissertation or Thesis) (Credit to be arranged)**

Pharmacology

***PHM 701. General Pharmacology. (4 hours)**

A survey course covering the general principles of pharmacodynamics, chemotherapy and toxicology. The pharmacology of the following will be introduced: central nervous system, peripheral motor nervous system, cardiovascular-renal system, gastrointestinal system, and endocrine system.

***PHM 711. Cryopharmacology. (3 hours)**
Prerequisite: Consent of instructor.

The biophysics of freezing injury and the use of cryoprotective drugs.

***PHM 721. Drug Induced Teratogenesis. (3 hours)**
Prerequisite: Consent of instructor

Consideration of theories of drug induction on congenital malformations in the mammalian fetus. Experimental methods of evaluating drug teratogenicity will be studied.

***PHM 801. Molecular Pharmacology. (3 hours)**
Prerequisites: PHM 701 or equivalent and consent of instructor

Mechanism of achieving a biological effect through the chemical interaction of a drug with a biological receptor.

***PHM 802. Methods in Pharmacological Research. (3 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

Physiological and biochemical methods employed in pharmacological investigations.

***PHM 803. Neuropharmacology. (3 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

Selected topics related to the action of chemical agents on the nervous system.

***PHM 804. Advanced Pharmacology. (2 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

Research objectives in pharmacology. Current concepts and trends in pharmacological research.

***PHM 805. Mechanisms of Drug Toxicity. (3 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

A study of the adverse effects of drugs on organ systems and metabolic pathways.

***PHM 808. Autonomic Pharmacology. (3 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

A study of neurohumoral transmission, adrenergic and cholinergic agonists and blocking agents, and mechanisms of action of drugs affecting the peripheral motor nervous system.

***PHM 809. Cardiovascular-Renal Pharmacology. (3 hours)**

Prerequisites: PHM 701 or equivalent and consent of instructor

Evaluation of the interrelationships of the action of drugs on the heart, peripheral circulation, and renal function.

PHM 901, 902, 903. Seminar in Pharmacology. (1 hour each)**PHM 921. Investigation of a Problem. (Credit to be arranged)*****PHM 930. Research. (for Dissertation or Thesis) (Credit to be arranged)**

Physiology

***PHY 701, 702, 703. Survey of Physiology. (6, 6 and 4 hours respectively)**

Electrophysiology, muscle and cardiovascular physiology; respiratory, fluid and gastrointestinal physiology, metabolism endocrine physiology, neurophysiology.

***PHY 802. Cardiodynamics. (3 hours)**

Prerequisites: PHY 701, 702 703 and/or permission of the instructor

Physiology of the heart, including structure, development, action as muscle and dynamics of its pumping action.

***PHY 803. Peripheral Circulation. (3 hours)**

Prerequisites: PHY 701, 702, 703 and/ or permission of the instructor

A study of the architecture and hemodynamics of peripheral vasculature.

***PHY 804. Muscle Physiology.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of instructor

Excitation contraction coupling. Contractile proteins and chemistry of contraction. Theory of contraction. (Skeletal, heart and smooth muscles.)

***PHY 805. Blood Flow Regulation.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A study of the determinants affecting cardiac output and peripheral flow, with consideration of the techniques of measuring the flow.

***PHY 806. Respiration.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A study of the mechanics and the control of respiration including consideration of experimental measurement.

***PHY 807. Body Fluid Regulation.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A study of current concepts of regulation of body fluid volume and composition. Laboratory experiences in measurement of renal function and body fluid volumes will provide data to be interpreted in the light of current and classical literature.

***PHY 813. Electrophysiology.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Theoretical basis of electrophysiological phenomena; recording apparatus and technique, and the electrophysiology of cell tissues and excitable structures.

***PHY 815. Radioisotopes in Biological Research.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

The theory, utility and methodology for the use of radioisotopes in biological research.

***PHY 816. Motor Systems.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Survey of neurophysiological mechanisms which underlie cerebral, cerebellar and basal ganglia control of voluntary movement.

***PHY 820. Radiobiology.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Cellular and physiological effects of ionizing radiation.

***PHY 821. Sensory Systems.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A guided survey of the basic principles of functional organization of somatic and special sensory systems.

Emphasis on coding and synaptic processing of sensory information.

***PHY 822. Biological Substrates of Learning and Motivation.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A survey of the electrophysiological, neuroanatomical and biochemical correlates of learning and motivation. Included will be an assessment of techniques used in this area of study.

***PHY 823. The Application of Control Theory to Physiological Systems.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

The study of the techniques to mathematically describe a physiological process and the aspects of control theory that are effective in the analysis of a system. Computer simulation of selected physiological systems.

***PHY 824. Physiology of Thyroid and Parathyroid Hormone.** (3 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Control of secretion, synthesis and metabolism of thyroid hormones along with present concepts of general metabolic functions of thyroid hormones. The latter half of the course will involve a study of the control of secretion of thyrocalcitonin and parathyroid hormones and how these two hormones interact as regulators of plasma and tissue levels of calcium, magnesium and phosphorus.

***PHY 825. Electronics as Applied to Medicine.** (4 hours)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

A study of electronic methods currently employed in Physiology. After completing lecture and laboratory work in basic concepts in electronic technology the student will elect further experience in two or more of the following options: electronics for cardiovascular studies; digital electronics; electrophysiology; laboratory computers.

***PHY 899. Special Topic Seminar Courses in Physiology. (Hours to be arranged)**
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Special topic courses taught as seminars in the areas of cardiovascular, renal, respiratory, muscle, neuro and endocrine physiology.

***PHY 901, 902, 903. Seminar in Physiology.** (1 hour each)
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

***PHY 921. Investigation of a Problem. (Credit to be arranged)**
Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

***PHY 930. Research. (for Dissertation or Thesis)**
(Credit to be arranged)

Prerequisites: PHY 701, 702, 703 and/or permission of the instructor

Health Systems Courses

***HS 630. Introduction to Biomedical Computing. (3 hours)**

Introduction to computers and their use in analyzing biomedical data. Emphasis is on the logic of formulating algorithms for use on the computer and translating these into computer programs using the BASIC and FORTRAN computer languages. (Formerly STA 601.)

***HS 631-632. Advanced Techniques in Biomedical Computing. (3 hours each)**

Prerequisites: HS 630, STA 601 or equivalent

Advanced FORTRAN and techniques for processing and analyzing biomedical data. Curve fitting and related techniques for analyzing biological signals. Use of program packages for numerical and statistical analysis. Organization of large files and data banks. Students will be encouraged to learn these methods using research problems from their own professional areas. The last quarter will include a supervised project from each student's area of interest. (Formerly STA 602-603.)

***HS 850. Biometry: Introductory Research Statistics. (5 hours)**

General principles and methods of statistics as applied to biological research. Descriptive statistics, fundamental probability distributions, estimations and hypothesis testing, introduction to analysis of variance. (Formerly STA 801.)

***HS 851-852. Biometry: Advanced Research Statistics. (3 hours each)**

Prerequisites: HS 850, STA 801 or equivalent

Regression and correlation analysis and curve-fitting, design of experiments and analysis of variance analysis of frequency data, nonparametric methods, introduction to multivariate analysis. (Formerly STA 802-803.)

Special Course

***ED 940. The Management of Learning Activities. (4 hours)**

Theory and practice of management of learning activities; including setting objectives, planning and preparing learning activities, presetting the activity, and evaluating its effectiveness.

Health Systems and Information Sciences

HS 310. Introduction to Management. (3-0-3 hours)
Prerequisite: Approval of instructor

An introductory study of the management process and

the fundamental functions of planning, organizing, actuating and controlling with emphasis on applications to the health care environment.

HS 400. Introduction to Management Decision Concepts (3-0-3 hours)

Prerequisite: Approval of instructor

The structure of management decisions will be examined from the viewpoint of the rational manager. A framework of decision concepts will be developed, within which a logical, systematic approach can be formulated for a wide range of decision problems and opportunities. Illustrative examples will be used throughout the course to provide the health systems context.

HS 410. Departmental Systems Management Techniques. (3-0-3 hours)

Prerequisite: Approval of instructor

An application-oriented course in management problem solving, tailored on demand for presentation to specific student groups. Case problems in specific hospital departments are the vehicles for presentation of systematic problem solving techniques and approaches. Example techniques are: work standards, staffing methods and performance measures; scheduling work activities, departmental organization; monitoring and controlling quality; cost reduction methods.

HS 420. Systems Analysis in Health Systems Management. (3-2-3 hours)

Prerequisite: Approval of instructor

A survey of systems analysis concepts and techniques useful as aids in the management of health-related activities will be presented. A framework for using and understanding systems analysis methods will be developed, beginning with managerial responsibilities and objectives, moving through simple do-it-yourself analysis methods, and surveying more advanced techniques employed by in-house and extramural consultants.

HS 431. Introduction to Computers in Health Care Delivery. (2-0-2 hours)

Basic introduction to computer fundamentals and terminology. Survey of computer uses in supporting health care delivery, including health information systems, patient monitoring, patient histories and automated medical records, laboratory automation and multiphasic health screening, and continuing health education.

HS 440. Introduction to Data Processing Systems. (3-0-3 hours)

A study of the application of modern data processing techniques, data management, and information storage and retrieval to the needs of medical institutions.

HS 450. Elementary Medical Statistics. (3-0-3 hours)

Collection and analysis of health care data; rates, ratios, and indices; design of surveys; descriptive statistics; elementary probability distributions; confidence limits

and significance tests; design of investigations. (Formerly STA 301.)

HS 461. Eletronics for Allied Health Scientists. (2-2-3 hours)

A course aimed at giving allied health scientists a working knowledge of the electronics used in various disciplines. Following a course in the basic principles of electronic measurement, various sub-courses can be pursued which would be appropriate for respiratory therapists, radiological technologists, physical therapists or laboratory technologists. Laboratory experience parallels the lecture material given.

HS 610. Departmental Systems and Management Concepts. (3-0-3 or 3-2-5 hours)

An application-oriented course in management problem solving, tailored on demand for presentation to specific student groups. Case problems in specific hospital departments are the vehicles for presentation of systematic problem solving techniques and approaches. Example techniques are: work standards, staffing methods and performance measures; scheduling work activities, departmental organization; monitoring and controlling quality; cost reduction methods.

***HS 630. Introduction to Biomedical Computing.** (3-0-3 hours)

Introduction to computers and their use in analyzing biomedical data. Emphasis is on the logic of formulating algorithms for use on the computer and translating these into computer programs using the BASIC and FORTRAN computer languages. (Formerly STA 601.)

***HS 631-632. Advanced Techniques in Biomedical Computing.** (3-0-3, 3-0-3 hours)
Prerequisite: HS 630, STA 601 or equivalent

Advanced FORTRAN and techniques for processing and analyzing biomedical data. Curve fitting and related techniques for analyzing biological signals. Use of program packages for numerical and statistical analysis. Organization of large files and data banks. Students will be encouraged to learn these methods using research problems from their own professional areas. The last quarter will include a supervised project from each student's area of interest. (Formerly STA 602-603.)

HS 635. Computers in Education. (3-0-3 or 3-2-5 hours)

Introduction to use of computers in education, including computer-assisted instruction (CAI) and computer-managed instruction (CMI). Survey of general concepts, authoring systems and computer languages, computer terminals and systems, and currently available instruction modules. Practical experience in implementing an instructional routine of the student's choice.

HS 645. Health Information Systems. (3-0-3 hours)

Concepts and principles of health information systems. Hospital information systems, with emphasis on flow of patient data throughout the hospital, systems for organizing and managing information flow, and use of

computers in the information system and in specialized hospital service and patient care areas. Concepts and progress in area-wide health information systems inter-connecting different units in the health care system.

***HS 850. Biometry: Introductory Research Statistics.** (3-2-5 hours)

General principles and methods of statistics as applied to biological research. Descriptive statistics, fundamental probability distributions, estimations and hypothesis testing, introduction to analysis of variance. (Formerly STA 801.)

***HS 851-852. Biometry: Advanced Research Statistics.** (3-0-3, 3-0-3 hours)

Prerequisites: HS 850, STA 801 or equivalent

Regression and correlation analysis and curve-fitting, design of experiments and analysis of variance, analysis of frequency data, nonparametric methods, introduction to multivariate analysis. (Formerly STA 802-803.)

HS 860. Application of Control Theory to Physiological Systems. (3-0-3 hours)

Prerequisites: PHY 701, 702, 703 or approval of instructor

The study of the techniques to mathematically describe a physiological process and aspects of control theory that are effective in the analysis of a system. Computer simulation of selected physiological systems. (Cross listed as PHY 823.)

HS 861. Electronics as Applied to Medicine. (2-4-3 hours)

The modern biological scientist is assisted in his work by a wide range of electronic instrumentation to the point where an understanding of instrumentation techniques is vital. Biomedical Engineering has developed a teaching system which consists of a course in basic electronics which is a prerequisite to sub-courses in electronics for cardiovascular studies and digital circuitry. Other sub-courses on electrophysiology, instrumentation for biochemistry, and laboratory computer applications are in preparation. Appropriate sub-courses can be taken by a student to match his particular field. (Cross listed as MED 525 and PHY 825.)

School of Medicine

Anatomy

AMN 320. Survey of Human Anatomy and Physiology I. (5 hours credit) (Fall)

This course consists of a survey of basic cellular structure and function, cellular organization into tissues and the body as a whole as the first of three units. The second unit consist of the musculo-skeletal systems and their functions. To complete this course the integration and control of the body is introduced with a survey of the nervous system, sense organs and the endocrine system.

Four hours of lecture and two hours of lab are presented weekly.

ANM 321. Survey of Human Anatomy and Physiology II. (5 hrs. credit) (Winter)

In this course the anatomy and physiology of the circulatory, respiratory, digestive, urinary and reproductive systems are covered. The physiology of fluid, electrolyte and acid-base balance and stress are surveyed in this course. Four hours of lecture and two hours of lab are presented weekly.

ANM 330. Basic Gross Anatomy. (6 hrs. credit) (Fall)

This is an in-depth study of the structures of the human body. Special emphasis is given to the extremities. The course consists of approximately three hours of lecture per week and nine hours of laboratory. The laboratory exercise consists of complete dissection of the human cadaver, study of models and examination of x-rays.

ANM 331. Basic Neuroanatomy. (5 hrs. credit) (Winter)

This is an in-depth study of the central nervous system structures and the components of peripheral nerves. Approximately three hours of lecture and six hours of laboratory are given weekly. The laboratory exercise consists of dissection of the human brain and spinal cord, the use of Kodachrome slides of nervous structures, and mounted sections of brain tissue.

ANM 335. Clinical Anatomy. (6 hrs. credit) (Fall)

This course consists of a survey of gross, neuro, and histological anatomy which is relevant to the physical diagnostic approach to the patient. Approximately three hours of lecture and six hours of laboratory are presented weekly. Laboratory consists of examination of prosected human material, anatomical models and x-rays.

ANM 501. An Analysis of Ultra-structure. (Special Elective)

Anesthesiology

ANS 501. Anesthesiology Four Week Clerkship.

Basic elective in clinical anesthesia. Management of the patient before, during and after anesthesia under supervision of faculty. Lectures, seminars and conferences on shock, inhalation therapy, anesthetic agents, techniques and management of complications.

ANS 502. Anesthesiology Research Fellowship. (Special Elective)

Clinical research experience in analgesics for post-operative pain and blood gas studies in ventilatory and respiratory problems during or after anesthesia.

ANS 503. Anesthesiology Two Month Clerkship. (Special Elective)

Closely supervised clinical experience in the administration of anesthesia. Experience similar to that of a resident beginning training. Attendance at all scheduled teaching conferences and seminars.

ANS 504. Anesthesiology Preceptorship. (Special Elective)

Clinical experience in Anesthesiology in an off-campus hospital approved by the Chairman of the Department of Anesthesiology.

ANS 505. Respiratory Therapy Elective.

Introduction to both theoretical and technical aspects of respiratory therapy, with emphasis on basic physiology as related to the patient's problems and to solving these problems. Ventilators, IPPB, oxygen and aerosol therapy, blood gas interpretation and pulmonary function studies are among topics to be covered. In addition to lectures, selected patients will be used to demonstrate actual practical therapeutic aspects of respiratory therapy.

Cell and Molecular Biology

Phase I. Cell and Molecular Biology. (First Quarter)

This course has two main objectives: (a) to provide and develop the basic biochemical principles needed in understanding the normal process occurring within cells and the coordination of all of these processes into a normally functioning biological machine; (b) to use these principles to analyze commonly occurring health-related problems in terms of their biochemical components. Six hours of lecture and two hours of biochemical grand rounds are presented weekly.

Phase I. Medical Microbiology. (Third Quarter)

A lecture and laboratory course which considers the characteristics and properties of microorganisms, their role in the disease process, and selected aspects of diagnosis and treatment of infectious diseases. Eight hours of lecture per week and conferences at periodic intervals are presented.

CMB 244. Survey of Inorganic and Organic Chemistry. (5 hours)

A study of basic chemical laws, theories and principles. The course includes atomic structure, molecular formation and reaction. Organic preparation, nomenclature and reactions of carbon compounds.

CMB 345. Survey of Biochemistry. (5 hours)

A study of the chemical principles of living organisms. The course includes the structures of biomolecules, energy yielding processes, energy requiring processes and transfer of genetic information.

CMB 310. Introductory Microbiology. (5 hours)

An introduction to the nature of microorganisms, medical microbiology and immunology. Content will include morphology, physiology and taxonomy of representative microorganisms; bacteria, fungi and viruses of medical importance and their relation to diseases of man.

CMB 400. Clinical Biochemistry. (5 hours)

A study of selected clinical cases and their related biochemistry. The course includes a short review of the patient record with signs and symptoms, etiology, laboratory and pathologic findings, diagnoses, complications. The associated alteration in biochemistry is discussed.

Dermatology

DER 501. Dermatology Clinical Clerkship. (1 month)

Students will see inpatients and outpatients at the Talmadge Hospital and also outpatients at dermatology clinics at Fort Gordon, University and VA Hospitals.

Students participate in Dermal Pathology Conferences, Journal Clubs, and Basic Sciences Seminars. Supervision will be provided by the full-time staff and clinical faculty of the Department of Dermatology and the dermatology house staff. Close collaboration with the medical service will be included.

Endocrinology

END 501. Special Elective. (0-8-32 hours)

A two month elective in which a set of lectures in endocrinology, reproductive physiology and population problems are presented by the interdisciplinary endocrine group. The laboratory experience would consist of one of the following areas: methods for the measurements of blood steroids and gonadotropins; ultrastructural studies of endocrine tissues; hormone-receptor interactions; human cytogenetics; ovarian steroidogenesis; mechanism of ovulation; regulation and control of ovulation.

ITD 501. Clinical Conferences, Ward Rounds, etc. Lecture: 8 hrs.; Clinical conferences: 30 hrs.

A two month elective in which a set of lectures in endocrinology, reproductive physiology and population problems are presented by the interdisciplinary endocrine group. For the clinical clerkship the student can take two of the following: one month experience in the Department of Endocrinology with Drs. Greenblatt and Mahesh; one month with the Section of Metabolic and Endocrine Disease, Department of Medicine; one month with the Sections of Gynecologic Endocrinology and Family Planning, Department of Obstetrics and Gynecology. The course is designed to provide experience in diagnosis and management of endocrine and reproductive disorders and compliments the Phase II lecture course. The elective may be split into two one month blocks or with space available even a single one month block. In a one month experience the student will have to choose one of the three clinical clerkships.

Endocrinology, Reproduction and Population Block. Phase II. Lecture: 4 Lab: 2

The course provides the student the basic anatomy, biochemistry and physiology of the endocrine glands at a level that reinforce the introduction in Phase I and correlates the basic science principles in normal human physiology and endocrine diseases. After an introduction to the endocrine systems the course covers normal and abnormal development of secondary sex characteristics and puberty in the male and female, conception, contraception, pregnancy, labor, delivery and the neonate in utero and shortly after birth. The course then moves on to world population dynamics and that of the United States and current and future approaches to population control.

Family Practice

FMP 501. Family Practice and Cardiovascular Disease. (Preceptorship Elective)

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

This elective with Dr. Curtis Hames provides an opportunity to observe and participate in a well developed example of Family Practice. Dr. Hames has a

large group of medical assistants and aides to help him provide medical care in his office to a large number of patients. This elective can also include activities at the community hospital. As an optional opportunity, students interested in the epidemiology of cardiovascular disease may review the data from the Evans County Cardiovascular Research Project, which Dr. Hames has coordinated for the past 12 years.

FMP 502. Community Medicine Training in Other Institutions. (Preceptorship Elective)

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

Arrangements can be made for a variety of training experience in the Department of Community Medicine at other institutions. Such training can be in the continuous medical care of families, the evaluation of medical care, epidemiology, or public health.

FMP 503. Automotive Assistance in the Department of Health Care. (Preceptorship Elective)

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

The purpose of this elective is to give the student the opportunity to develop an overview of automotive assistance as it is used in health care, to work closely with an interdisciplinary group studying these automotive assistance systems, and to participate in operational projects oriented toward specific areas within these information systems. The student will also be given the opportunity to develop projects of personal interest. This elective will be tailored toward the specific interests of each individual student.

FMP 504. Introduction to Group Practice. (Preceptorship Elective)

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

The purpose of this elective is to provide the student with: a personal experience in working with a medium size multispecialty group (18 man) practice in a small city serving a primarily rural population and a better understanding of primary medical care and its relationship to specialty medical care within the setting of a group practice. The student will choose two of the group practice physicians (representing two of the following fields: family practice, internal medicine or pediatrics) and will spend a considerable portion of his time with these two physicians in their daily office practice and hospital rounds. He will become familiar with the patient populations of the two chosen specialists and working relationships of these two physicians with the other 16 physicians of the multispecialty group. Under supervision the students will share in the responsibility for the diagnosis and treatment of the patients of the chosen physicians, and will follow these patients if they require hospitalization or consultation by other members of the multispecialty group. The student will also spend several evenings each week with the physician on call in the evening clinic session of the multispecialty group and on call with his chosen physicians at the Stephens County Hospital Emergency Room. Room, board, laundry and \$50.00 of incidental expense money will be provided.

FMP 505. Experience in Epidemiologic Investigation.

Prerequisite: Participation in this elective must be

arranged through and approved by the Department of Family Practice

Students will work closely with the instructors and other staff in conducting on-going epidemiologic investigations. The specific content areas vary and may well involve cancer, medical care delivery, assessment of specific therapies, etc. Appropriate readings and conferences will be included.

FMP 506. Preceptorship—Family Practice. (Preceptorship Special Elective)

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

The purpose of this elective is to provide the student with a personal experience in family practice in a community setting. The student will spend time working very closely with a selected family practitioner (through the Georgia Academy of Family Physicians). The student will attend hospital rounds, participate with the family practitioner in his office practice, accompany him on home visits, emergency calls and related activities.

FMP 507. Evaluation of Health Problems and Medical Care III.

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

These seminars are designed to familiarize the students with the basic procedures utilized in valid medical research so that they can evaluate the scientific quality of articles in the journals and more effectively participate in research (if desired) or serve on research advisory committees. The conferences consist primarily of dissection of journal articles and brief outlines of hypothetical research projects designed by the students themselves. The material presented is appropriate to the year of training.

FMP 508. Problem Oriented Family Medical Care I.

Prerequisites: Successful completion of Phase II. Participation in this elective must be arranged through and approved by the Department of Family Practice

The primary objectives will be to develop skills in history taking and physical examination as well as defining medical and social problems and formation of problem lists. Some time will be spent in discussing medical management for problems. It is anticipated that each student will do a Health Screen Data Base on two or three patients per week. The workup will take place either during the morning or afternoon hours. The rest of the day will be spent in writing up the patient and reading about the various problems. The students will be assigned families and look at the entire family health situation and how certain disease processes affect the family unit.

FMP 509. Problem Oriented Family Medical Care II.

Prerequisites: Successful completion of FMP 508. Problem Oriented Family Medical Care I; Participation in this elective must be arranged through and approved by the Department of Family Practice

The objectives of this course are:

To expose the medical student to health care delivery in the ambulatory setting of the Family Practice Center.

To introduce the medical student to the concepts of continuous, comprehensive, concerned family care and practiced in the ambulatory care, Family Practice Center.

To assist the medical student in recognizing and defining patient and family medical and psycho-social problems using the Family Practice Center Health Screen.

To assist the medical student in recognizing and defining medical problems of those patients and families seen for immediate care in the Family Practice Center.

To assist the medical student in the management of medical care problems commonly encountered in the ambulatory patient setting.

To provide an opportunity for the medical student to understand and deal with the individual's health care problems in the context of the patient's family, job, and community.

FMP 510. Principles and Practice of Family Medicine in an Extended Care Facility.

Prerequisites: Successful completion of the Phase II and Phase III Clinical Core rotations; Participation in this elective must be arranged through and approved by the Department of Family Practice

The objectives of this elective are:

To expose the medical student to the principles and practice of health care delivery in an extended care facility, namely the Georgia War Veterans Nursing Home.

To provide an opportunity for the medical student to participate in an on-going care of G.W.V.N.H. patients.

To expose the medical student to a chronically ill, careable patient, the patient's family (when possible), the patient's home (selected cases) and the community resources available for the patient care.

FMP 511. Electrocardiography for Family Practice.

Prerequisites: (1) General Physiology, (2) One month elective in Family Practice or other exposure to the Data Base used in Comprehensive Primary care, (3) Theory Course: Electrocardiography for Family Practice (see attached schedule and objectives) or equivalent. Approval by the course instructors and the Chairman of Family Practice is required for enrollment in this elective. Participation in this elective must be arranged through and approved by the Department of Family Practice

This elective is intended to familiarize the student with (1) routine techniques for taking and interpreting the electrocardiogram, (2) the use of the electrocardiogram as a part of the complete Data Base and as a screening tool, and (3) the uses of the electrocardiogram in managing certain cardiovascular problems. During this one month period the student will meet with one or more electrocardiographers to analyze and interpret tracings. An opportunity will be provided to relate the electrocardiographic findings to other clinical information on the patient and his problems.

FMP 512. Health Hazard Appraisal.

Prerequisite: Participation in this elective must be arranged through and approved by the Department of Family Practice

The objective will be to teach the method of Health Hazard Appraisal as it relates to the 10 most common causes of death. To encourage patient education for the improvement of health status. Students will be allowed to perform Health Hazard Appraisal on selected cases for the practice of prospective medicine. To use Health Hazard Appraisal as a means of extending useful life expectancy and to find ways to improve the "tool" so that it may compete with the leadership in tomorrow's prospective medicine.

Students will use approved forms for Health Hazard Appraisal and the risk registry will be used to interpret the findings of the appraisal.

Elective Courses:**Epidemiologic Evaluation of Health Problems and Medical Care I. (Variable hours)**

These seminars are designed to familiarize the students with the basic procedures utilized in valid medical research so that they can evaluate the scientific quality of articles in the journals and more effectively participate in research (if desired) or serve on research advisory committees. The conferences consist primarily of dissection of journal articles and brief outlines of hypothetical research projects designed by the students themselves. The material presented is appropriate to the year of training.

Determining the Validity of Medical Information I. (Variable hours)

This independent work is designed to familiarize the student with the basic procedures utilized in valid medical research so that they can evaluate the scientific quality of articles in the journals and more effectively participate in research (if desired) or serve on research advisory committees. The work consists primarily of a review of the literature on a selected topic and the preparation of a paper presenting the review and a critical evaluation of the scientific quality of the articles reviewed. The material presented is appropriate to the year of training.

Dis-ease in the Family Unit. (Variable hours)

The goals of this elective are to gain proficiency in gathering a medical social history; to gain an appreciation for the family unit and the psycho-social changes dis-ease has on the family unit; to gain an appreciation of the patient as a person and the psycho-social changes dis-ease on the individual and to explore various health care delivery resources available to the patient and family.

Diagnostic Anatomy in Family Medicine I. (Variable hours)

Using medical problems commonly seen in the practice of Family Medicine the objectives of the course are: to emphasize the role that anatomic principles play in physical diagnosis and treatment; to demonstrate with patients and audio-visual aids the application of anatomic principles to medical problems; and to maintain an open format which encourages dialog between students and faculty. The material presented will be appropriate to the year of training.

Epidemiologic Evaluation of Health Problems and Medical Care II. (Variable hours)

These seminars are designed to familiarize the students with the basic procedures utilized in valid medical research so that they can evaluate the scientific quality of articles in the journals and more effectively participate in research (if desired) or serve on research advisory committees. The conferences consist primarily of dissection of journal articles and brief outlines of hypothetical research projects designed by the students themselves. The material presented is appropriate to the year of training.

Determining the Validity of Medical Information II. (Variable hours)

This independent work is designed to familiarize the student with the basic procedures utilized in valid medical research so that they can evaluate the scientific quality of articles in the journals and more effectively participate in research (if desired) or serve on research advisory committees. The work consists primarily of a review of the literature on a selected topic and the preparation of a

paper presenting the review and a critical evaluation of the scientific quality of the articles reviewed. The material presented is appropriate to the year of training.

Diagnostic Anatomy in Family Medicine II. (Variable hours)

Using medical problem commonly seen in the practice of Family Medicine the objectives of the course are: to emphasize the role that anatomic principles play in physical diagnosis and treatment; to demonstrate with patients and audio-visual aids the application of anatomic principles to medical problems; and to maintain an open format which encourages dialog between students and faculty. The material presented will be appropriate to the year of training.

Humanities**HUM 501. Human Sexuality.**

An interdisciplinary course designed to aid the student to better understand the sexual problems arising in medical practice. Content of the course includes medical, ethical, and psycho-social aspects of normal and abnormal sexuality. Instruction consists of conferences, selected readings and a special project in the areas of most interest to the student.

HUM 502. Death and Dying.

The course will include readings in the meaning of death, patient and physician reactions to death, as well as patient interviews and instruction in the care of the dying patient.

HUM 503. Religious Thought and Psychiatric Theory.

To investigate culturally and philosophically the influence of mysticism and religious practices on the psychological development of the individual.

HUM 504. Religion and Medicine.

An opportunity will be provided for the student to investigate various aspects of religious faith and practice as they relate to the practitioner, the patient and the delivery of health care in our society. The specific focus of the course will be decided in terms of the student's needs and interests.

HUM 505. European Medical Encounter.

This will provide opportunity for medical students to obtain a first hand look at various European systems of medical education and health care delivery. One day in each city visited will be spent at a medical school where appropriate officials will provide lectures on basic science and clinical teaching approaches, features of that nation's health care delivery system, and hopefully a tour of the facilities and clinical rounds with small groups of host medical students. The remaining two days in each city will combine interesting sightseeing with a block of free time to allow participants to pursue their own personal interests. (Arrangements made through the Division of Student Affairs.)

HUM 506. Special Electives for Individuals May Be Arranged.**HUM 507. Philosophy and Medicine.**

The course will investigate the philosophical structure, methodologies and basic presuppositions of medical research and practice. Examples of alternative topics to be

examined might include Empiricism and Clinical Awareness, the Scientific Community and the Validity of Research, the Historical Development of the Science of Medicine, the Logic of the Scientific Method, Fact and Faith in the Scientific Worldview, and/or others of interest to student and instructor. Methods of instruction will include readings, vigorous discussion and optional camping field trips.

HUM 508. Ethical Issues in Medicine.

Participants will explore some of the most significant and interesting problems arising out of the practice of medicine using the tools of ethical analysis. The selection of specific issues will depend upon the mutual discretion of student and instructor. Examples might include such general topics as informal consent, human experiments, reproduction, the patient-physician contract, health care distribution, organ transplantation, care of the dying, and so forth. The course will consist of co-operative research in library and clinical settings.

Medicine

MED 500. Basic Medical Clerkship. (3 months)

A three month medical clerkship intended to provide a basic grounding for clinical medicine. It is organized to help students learn to obtain and evaluate information regarding patients by participating in the health care team. The clerkship emphasizes basic approaches to solving problems presented by illness, particularly in the realm of internal medicine.

MED 501. Substitute Internship at VA Hospital. (1 month)

Students in this elective function as interns on the general medical services and medical outpatient clinic at Veterans Administration Hospital. Since there is usually an intern on each of the services, the student will alternate patients with the intern and will function as the intern in the initial work-up, treatment and care of these patients. He will be closely supervised by the resident and faculty physician attending on the service. The substitute intern will be responsible for planning and instituting the diagnostic work-up and therapeutic program for his patients. In addition, he will assist in the teaching of junior medical students assigned to his service. In summary, he will *be* a substitute intern.

MED 502. Substitute Internship at VA Hospital. (2 months)

Students in this elective function as interns on the general medical services and medical outpatient clinic at Veterans Administration Hospital. Since there is usually an intern on each of the services, the student will alternate patients with the intern and will function as the intern in the initial work-up, treatment and care of these patients. He will be closely supervised by the resident and faculty physician attending on the service. The substitute intern will be responsible for planning and instituting the diagnostic work-up and therapeutic program for his patients. In addition, he will assist in the teaching of junior medical students assigned to his service. In summary, he will *be* a substitute intern.

MED 502. Substitute Internship at University Hospital. (1 month)

Students will function essentially as interns, except that orders on charts must be countersigned. The student will participate in rounds, conferences, clinics, and ward-

work. The clinical faculty of the Department of Medicine serves as the primary faculty of this course.

MED 504. Substitute Internship at the Dwight David Eisenhower Army Medical Center, Fort Gordon. (1 month)

Students will function essentially as interns, except that orders on charts must be countersigned. The student will participate in rounds, conferences, clinics, and ward-work. The staff of the hospital will serve as faculty for this course. Students can be assigned to the General Medicine Service or to Cardiology, Gastroenterology, or Pulmonary Disease Services; a maximum of two students at a time can be assigned to each service.

MED 505. Substitute Internship at the Dwight David Eisenhower Army Medical Center, Fort Gordon. (2 months)

Students will function essentially as interns, except that orders on charts must be countersigned. The student will participate in rounds, conferences, clinics, and ward-work. The staff of the hospital will serve as faculty for this course. Students can be assigned to the General Medicine Service or to Cardiology, Gastroenterology, or Pulmonary Disease Services; a maximum of two students at a time can be assigned to each service.

MED 506. Rheumatology. (1 month)

A clinical multidisciplinary experience in the rheumatic diseases with a basic core of material pertinent to major diseases in this area, experience with consulting and clinical material. Special desires for more defined endeavor by the student will be considered.

MED 507. Rheumatology. (2 months)

A clinical multidisciplinary experience in the rheumatic diseases with a basic core of material pertinent in major diseases in this area, experience with consulting and clinical material. Special desires for more defined endeavor by the student will be considered.

MED 508. Hematology. (1 month)

Objective: On completion of the elective, the student should have the ability to diagnose, on the basis of clinical and laboratory findings, and treat the common hematologic problems.

Method: The material is outlined around clinical problems using core manuals, slide tapes, films, microscope sessions, suggested readings, round robin discussions and conferences. Patient contacts and discussions are provided via consultations, rounds, outpatient clinics, and tough-case conferences.

MED 509. Hematology at VA. (1 to 2 months)

This elective is designed to provide the basics in clinical hematology. It includes in-depth study of the pathophysiology relating to hematologic disorders and the performance, by the student, of basic hematologic procedures. The techniques of obtaining, preparing and interpreting blood and marrow morphology is strongly emphasized as is the performance of routine coagulation screening studies, e.g. prothrombin time, partial thrombo-plastin time, thrombin time, platelet count and fibrin split products.

MED 510. Metabolic and Endocrine Research. (1 to 3 months)

Having completed the two month standard elective in Clinical Endocrinology and Reproduction, the student by special arrangement with a division faculty member who

will serve as preceptor can undertake a study in clinical or laboratory research directed toward a specific problem in endocrinology. At the same time, the student will participate in rounds, conferences, etc.

MED 511. Nephrology. (1 month)

Clinical nephrology covered through: evaluation and treatment of inpatient consultations, twice weekly general seminars, weekly biopsy conferences, weekly clinical conference, weekly uremia conference, weekly outpatient clinic and outpatient conference.

MED 512. Clinical Cardiology. (1 month)

The course is an intensive exposure to electrocardiographic interpretation and consultative cardiology. The clinical emphasis is on correlation of treatment and physical findings with hemodynamic data.

MED 513. Cardiology: Clinical Hemodynamics. (1 to 2 months)

Students will have the opportunity to work-up all patients admitted for special diagnostic studies, participate in the exercise evaluation of these patients and in the interpretation of ECG, x-rays, pulmonary function data and all data obtained at cardiac catheterization (pressures, flows, volumes, dye, dilution angiocardiograms and coronary angiograms).

MED 514. Cardiology at the Dwight David Eisenhower Army Medical Center, Fort Gordon. (1 to 2 months)

This course is designed to provide basic knowledge in the problems of heart disease and its complications. Students rotate and act as interns in the Intensive Care Unit, and the other cardiology wards, and clinics. They will also spend time understanding and reading electrocardiograms, vectorcardiograms, and phonocardiograms.

MED 515. Cardiology at VA. (2 months)

Both months will be spent with emphasis on direct patient care and management based on sound approaches to cardiologic diagnosis. With the exception of writing orders without countersignature, the student taking this elective will in general have the same duties, activities and program as for any assigned to the Cardiologic Service. This includes the fact that on holidays and vacations, the students will operate on a "house staff" schedule rather than on any student vacation schedule which might be issued administratively. The students will have the opportunity to read first-hand electrocardiograms, to obtain and interpret other special procedures as indicated including esophageal electrocardiograms, phonocardiograms and external pulse tracings. If the student desires, he may have the opportunity to read and record vecto-cardiographic interpretations.

An effort is made in this elective to bridge the gap for the senior medical student between the role as student and the role as an autonomous M.D.

MED 516. Gastroenterology at ETMH. (1 month)

This course is designed to provide an understanding of clinical aspects diseases of the digestive system, including endoscopy, interpretation of gastrointestinal x-rays, biopsies and laboratory tests. It consists of rounds, conferences and clinics at the Talmadge Hospital.

MED 517. Further Studies in Gastroenterology at Talmadge and VA Hospitals. (1, 2 or 3 months)

At Talmadge or the VA the student will broaden his knowledge in gastrointestinal pathophysiology and

disease. The student may pursue in-depth interest in a laboratory or clinical research problem.

MED 518. Gastroenterology at VA Hospital. (1 month)

In this course the student becomes familiar with the approaches to the patient with gastrointestinal and liver problems. He is given the opportunity to observe and participate in specialized instrumentation and laboratory studies that are used in this field. He has the opportunity to plan patient management under the supervision of the faculty.

MED 519. Medical Chest at Talmadge Hospital. (1 month)

This course is designed to provide grounding in the clinical evaluation of chest diseases. It consists of rounds, clinics and conferences, all spent primarily discussing patients. Special emphasis is placed on chest x-ray interpretation, pulmonary function testing and the interpretation of arterial blood gas studies.

MED 520. Medical Chest at VA Hospital. (1 month)

Experience in a clinical setting caring for patients with various respiratory disorders. Includes experience in a pulmonary intensive care unit managing patients with respiratory insufficiency.

MED 521. Infectious Disease. (1 month)

This course is designed to provide experience in clinical diagnosis and management of infectious diseases, interpretation of stain, culture and sensitivity data and appropriate use of antibiotics. It consists of rounds and conferences at the Talmadge Hospital.

MED 522. Infectious Disease at VA Hospital. (1 month)

This course is designed to provide an opportunity for the student to gain experience in the clinical diagnosis and management of patients with infections, interpretation of stains of specimen cultures, sensitivity data and appropriate use of antibiotics. The elective consists of rounds and conferences at the Veterans Administration Hospital, Forest Hills Division.

MED 523. Clinical Oncology. (1 or 2 months)

The student will be exposed to problems of neoplastic disorders. Emphasis will be placed on diagnosis and chemotherapy of malignant disease.

MED 524. Lipid Metabolism and Nutrition. (1 month)

The elective will provide experience in diagnosis, treatment, and pathophysiology of disorders of lipid metabolism and nutrition via outpatient clinics, consultations, rounds, conferences and seminars. A part-time elective in Lipid Clinic may also be arranged. Opportunity is provided for participation in clinical experimental studios of hyperlipidemia and vascular disease and/or laboratory evaluation.

MED 525. Electronics As Applied to Medicine. (1 month)

Attempts to give fundamental knowledge of simple electronic circuits. With this as a basis, discussion is offered on application of electronics in cardiology, electrophysiology and biochemistry. Stress is laid on pitfalls and limitations in use of electronic measurements systems. *Note:* It is suggested that this elective be taken in conjunction with some other related topic.

MED 526. Preceptorship in Internal Medicine. (Special Elective) (1 month)

Clinical preceptorships spent working closely with members of the clinical faculty of the Department of Medicine can be arranged. Each student will accompany the preceptor in his office and hospital functions during the period of the elective. A list of preceptors available for this elective is in the Department of Medicine.

MED 527. Preceptorship in Renal Medicine. (Special Elective) (1 month)

A clinical preceptorship during which the student will accompany Dr. Van Giesen in the chronic dialysis-renal transplant program at the Talmadge Hospital and his office practice.

MED 528. Off-Campus Elective. (Special Elective) (1 to 2 months)

Special arrangements can be made for elective periods of one to two months in the Department of Medicine at other medical schools and teaching institutions. These electives can be spent in general internal medicine, medical sub-specialties or emergency medicine programs.

MED 529. Research Elective in Medicine. (Special Elective) (2 months or longer on arrangement)

Opportunity to participate in research programs being conducted by members of the faculty of the Department of Medicine. A list of projects and preceptors is available in the Office of the Chairman of the Department of Medicine.

MED 530. College Health. (Special Elective) (1 to 3 months)

Outpatient and inpatient diagnosis and treatment of physical and mental health problems in college students at the University of Georgia under the supervision of full-time staff. Regular conferences, reference library; laboratory and x-ray facilities. Allowance is made for living expenses while in Athens.

MED 531. Physical Medicine. (Rheumatology) (Special Elective) (1 month)

Experience and instruction in the role of physical medicine in and treatment of musculoskeletal diseases, especially rheumatoid arthritis. Students will join a program of instruction organized for residents in Physical Medicine and Rehabilitation from several institutions who take this elective rotation at Warm Springs.

MED 532. Internal Medicine Clerkship. (Special Elective) (1 or 2 months)

Clerkship in Internal Medicine including initial contact and work-up of acutely ill patients under supervision of more senior house staff and attendings. Attendance at daily teaching rounds, conferences and clinics. Contact Dr. C. Daniel Cabaniss, Director of Medical Education, The Medical Center, Columbus, Georgia, 31902.

MED 533. Advanced Clerkship at Savannah Memorial Hospital. (Special Elective) (1 or 2 months)

Advanced medical clerkship in internal medicine or cardiology. Includes work-up of patients with hospital and clinic attendance on rounds and at conferences. Teaching is done by full-time faculty and practicing physicians.

MED 534. Gastroenterology, Macon (Special Elective) (1 month)

The student is assigned to Dr. James Achord and will participate in all staff and private patient consultations and procedures. In addition, he will be asked to pick a specific topic in G.I. each week and be expected to review the subject in-depth by library chart and slide review. Once each week, a two hour session of discussion on this subject will be held.

MED 535. Advanced Clerkship at the Medical Center Central Georgia, Macon. (1 or 2 months)

The student will be assigned to a specific ward where he will see, evaluate and suggest diagnostic and therapeutic regimens on three new patients each week under the tutelage of Dr. Achord and members of the Medical Staff. He will attend one general practice outpatient clinic and three sessions of teaching rounds each week. He will be assigned night duty as an extern every third night. He will be expected to participate in Medical Grand Rounds every Saturday morning as well as other regularly scheduled medical conferences.

MED 536. Advanced Clerkship at Georgia Baptist Hospital. (Special Elective) (1 or 2 months)

The Department of Medicine at Georgia Baptist Hospital in Atlanta, Georgia, offers a clerkship in Internal Medicine for senior students interested in General Internal Medicine, Cardiovascular or Pulmonary Medicine. Two clerkships are offered for any given period of time and will involve evaluation and management of patient, both inpatient and outpatient. The program to include conferences, rounds and seminars is under the direction of full-time department physicians in Internal Medicine.

MED 537. Hypertension and Clinical Pharmacology. (1 to 2 months)

Four clinics for follow-up of patients with hypertension will be the major clinical experience. Over 400 patients are followed. There will also be a chance to see patients in consultation both at ETMH and University Hospital. There will be a few patients hospitalized in which direct patient care will be involved. This experience involves outpatient management of people with hypertensive diseases. There is the opportunity to learn first hand the pharmacology of antihypertensive drugs. The other aspect is the evaluation of hospitalized patients with hypertensive diseases for either better blood pressure control or specific diagnosis of correctable diseases. These diseases include pheochromocytomas, Cushing's disease, acromegaly, aldosteronism, coarctation of aorta and renovascular disease.

Neurology**Phase I. Neurosciences.**

An interdisciplinary course with participation of both clinical and basic science faculty. The function and structure of the nervous system is related to neurological examination.

Phase II. Clinical Neurology.

An introduction to neurological diseases and the "tools" of neurology.

Phase III. Electives:

NEU 501. Basic Clerkship in Neurology.

Students participate in the care of inpatients and selected outpatients. Organized teaching activities include daily ward rounds and weekly clinical neuroscience conference, pediatric neurology clinical case conference and neuroradiology conference. Specifics of rotation can be arranged with Dr. Joseph Green.

NEU 502, 503, 504. Advanced Clerkship in Adult Neurology.

Prerequisites: NEU 501, 505

The activities are similar to those in the Basic Neurology Clerkship except that there is more opportunity for an in-depth experience. Those in these clerkships will be given increasing responsibilities for patient care and more opportunity for clinical, basic and library research. Specifics of rotation can be arranged through Dr. Joseph Green.

NEU 505. Basic Clerkship in Pediatric Neurology.

The student will be exposed to common pediatric-neurological problems which include the differential diagnosis of CNS degenerative diseases, convulsive disorders, CNS metabolic disorders, mental retardation, birth defects, learning disorders and neuromuscular problems. Specifics of rotation can be arranged through Dr. Paul Dyken.

NEU 506, 507. Advanced Clerkship in Pediatric Neurology.

Prerequisite: Either NEU 505 or NEU 506

The activities in this elective are similar to those in the Basic Clerkship in Pediatric Neurology except that there is more flexibility and more opportunity for an in-depth experience in Pediatric Neurology. Whereas NEU 505 is located at ETMH obly, the advanced clerkships will offer considerable experience at the University and Gracewood Hospitals. To be arranged through Dr. Paul Dyken.

NEU 508, 509. Preceptorship in Neurology. (Special Elective)

Prerequisite: NEU 501 or NEU 505

The student will have an opportunity to evaluate and participate in the management of patients seen in the private practice of neurology and pediatric neurology in the Augusta, Savannah or other areas around the country by special arrangement with a known preceptor and the Chairman of the Department of Nuerology.

NEU 510, 511, 512. Advanced Tutorial in Neurology. (Special Elective)

Prerequisite: NEU 501 or NEU 505

From one to three months of tutorial study and/or investigation of a subject in-depth may be arranged with any faculty member of the Department of Neurology. (Dr. Joseph Green)

NEU 513. Developmental Disabilities. (Special Elective)

The student will be a member of an interdisciplinary team which will include medical, nursing, and occupational and physical therapy students. Each team, under supervision of a special preceptor, will be assigned to community projects involving service to the retarded, epileptic, and cerebral palsied.

Obstetrics and Gynecology

OBG 500. Clinical Reproductive Biology.

(14-14-56 hours)

(June through May)

This required basic clerkship of six weeks duration combines inpatient and outpatient experience in human reproduction and in disorders of the female reproductive system. The student will spend three weeks on the obstetrics service and three weeks on the gynecology service at ETMH. One week of gynecology will be gynecologic endocrinology and three days will be with the laparoscopy project. Two students of each group will be assigned to Macon City Hospital for their clinical experience in Obstetrics and Gynecology.

OBG 501. Obstetrics and Gynecology. (Special Elective; June through May)

(5-30-40 hours)

Prerequisite: OBG 500

This senior clerkship is offered by arrangement with various hospitals and medical schools in the United States. Course will be designed to fit each students' particular needs and may be either clinically oriented or research oriented.

OBG 502, 503. Obstetrics and Gynecology. (University Hospital)

(5-30-40 hours)

(502-1 month, 503-2 months; June through May)

Prerequisite: OBG 500

This senior clerkship is offered at the Univesity Hospital where the student works under the supervision of the Medical College residents and clinical faculty on the ward service. He is given responsibility for the evaluation and care of patients consistent with his abilities.

OBG 504, 505. Obstetrics and Gynecology. (Fort Gordon)

(5-30-40 hours)

(504-1 month, 505-2 months; June through May)

Prerequisite: OBG 500

This senior elective is offered at Fort Gordon Army Hospital where the student is assigned responsibility for the evaluation and care of obstetrics and gynecologic patients under the supervision of the staff physicians.

OBG 506. Off-Campus Elective. Athens, Georgia

(5-30-40 hours)

(1 or 2 months; by arrangement)

Prerequisite: OBG 500

This senior elective is offered at Athens Hospital, Athens, Georgia where the student will work under the supervision of the clinical faculty and will be assigned responsibility for the evaluation and care of obstetric and gynecologic patients in the physician's office and in the hospital.

OBG 507. Off-Campus Elective in Clinical OB/GN. Columbus, Georgia

(5-30-40 hours)

(1 or 2 months; by arrangement)

Prerequisite: OBG 500

At the Medical Center, Columbus, Georgia, the student will be assigned responsibility for the evaluation and care of obstetric and gynecologic patients under the supervision of the Chief of Obstetrics and Gynecology. He will be responsible for preparation and presentation of weekly grand rounds and Gyn Pathology conferences.

OBG 508. Off-Campus Elective in Clinical OB/GN. Macon, Georgia (5-30-40 hours)
(1 or 2 months; all year)
Prerequisite: OBG 500

Students will be assigned to the service under the direct tutelage of one of the senior residents, attending staff and chief of service. He will follow the normal labor, delivery and postpartum care during the evening shifts of every third night and every third week-end. The days will be concentrated on gynecologic problems as seen in the Outpatient Department and wards and they will be expected to evaluate, suggest therapy and scrub on gynecological procedures. Attendance at ward rounds and all teaching conferences is mandatory.

OBG 509. Off-Campus Elective in Clinical OB/GN. Savannah, Georgia (5-30-40 hours)
(1 or 2 months; all year)
Prerequisite: OBG 500

The senior elective is offered at Memorial Medical Center at Savannah where the student is assigned responsibility for the evaluation and care of obstetric and gynecologic patients under the supervision of the resident physicians and staff physicians.

OBG 510. Off-Campus Elective in Clinical OB/GN. Jacksonville, Florida (5-30-40 hours)
(1 or 2 months; all year by arrangement)
Prerequisite: OBG 500

The senior elective is offered at Jacksonville, Florida where the student is assigned responsibility for the evaluation and care of obstetric and gynecologic patients under the supervision of the resident physicians and staff physicians.

OBG 511. Preceptorship in Clinical OB/GN. (5-30-40 hours)
(1 or 2 months; all year by arrangement)
Prerequisite: OBG 500

The student will work under the direct supervision of his preceptor in the evaluation and treatment of the preceptor's private patients both in the office and hospital setting. He will be responsible for preoperative evaluation, for O.R. assistance and for postoperative care of the patients as designated by the preceptor.

ITD 501. Interdepartmental-Clinical Endocrinology and Reproduction. (14-14-56 hours)
(2 months; September through June)

Ophthalmology

OPH 501. Ophthalmology Clerkship.
(1 month; August through May)
Prerequisite: Core course in Ophthalmology; (arranged through Ophthalmology Administrative Supervisor)
Advanced Course—Clerkship

The student participates with the residents and faculty in their daily departmental activities. This includes seeing and evaluating patients with the residents and faculty, participation in work rounds, conferences and lectures, and observation of some surgical procedures.

OPH 502. Ophthalmology Research Elective. (Special Elective)
(2 to 4 months; June through May)
Prerequisite: Core course in Ophthalmology; (arranged through Ophthalmology Administrative Supervisor); all

applicants must be interviewed by Dr. D. Hull and then by the doctor with whom they would be doing the research.

An area of mutual interest to the student and faculty supervisor will be selected and the student will outline his research project with literature references and carry it out under supervision. At the end of the project, a report of the work is required.

Ophthalmic Physiology: Dr. K.Green.

Clinical Research: Drs. M. Luxenberg, J. Bigger, and D. Hull.

OPH 503. Ophthalmology Off-Campus Experience. (Special Elective) (1 to 2 months; June through May)
Prerequisite: Core course in Ophthalmology; (arranged through Ophthalmology Administrative Supervisor)

Special arrangement can be made for elective periods of one or two months in a Department of Ophthalmology at another medical school, to study some phase of ophthalmology such as ophthalmic pathology, neuro-ophthalmology, etc. Written approval must be obtained in advance from both the MCG Department of Ophthalmology and the department where the elective is to be taken. A resume of work done will be turned in to the MCG Department of Ophthalmology at the end of the rotation, and a letter of evaluation from the Supervising Department will be required.

Postgraduate Training Programs—Ophthalmology

Three residents are selected annually for the approved three year residency in Ophthalmology. Emphasis is placed on training physicians in clinical ophthalmology and ophthalmic surgery with an opportunity to pursue clinical and basic research. Training includes rotations at Eugene Talmadge Memorial Hospital, Veterans Administration Hospital and University Hospital, all of which are located in Augusta. Basic sciences are taught throughout the residency by formal lectures and conferences.

Pathology

PTH 501. Anatomic Pathology. (Special Elective)
(1 to 3 months; June through May)

The student will perform approximately 10 to 20 autopsies under the supervision of the staff, develop fully the problems presented, and review the recent related literature. In addition, the student will help prepare a weekly conference for the combined meeting of the Medicine and Pathology Departments. (Drs. Mitchener, Murphy, McFarland and Sharma)

The student will review the interesting surgical pathology cases each week and attend Surgical Pathology Conference held with the Department of Surgery. He may attend a variety of other conferences each week.

PTH 502. Current Autopsy Case Studies. (Special Elective) (3 to 6 months; June through May)

The program has been designed for the study of human disease by thorough autopsy investigation enabling the interested student to pursue his studies at a deeper level of experience. Students have the same responsibilities as the resident staff with regard to their study and presentation of autopsy cases. (Pathology Staff)

PTH 503. Experimental Thrombosis. (Special Elective) (4 months; June through May)
Prerequisite: Approval of Instructor

The study of thrombosis is being investigated by means of a method for production of thrombi *in vitro*. A

methods for producing platelet thrombi *in vivo* with adenosine diphosphate (ADP) can be used to study many of the variables that affect the early stages of thrombosis. Any other approach to the study of thrombosis that is feasible in the time allowed and in this laboratory will be considered. (Dr. Chandler)

PTH 505. Research in Histochemistry.
(2 to 4 months; June through May)

Prerequisite: Phase I

The subject would be determined individually and would depend on the interest of the student as well as on the material available, e.g., chemical mechanism of staining methods, relation between dye configurations and affinity for certain tissue structures, conformational changes of myofibrils in early cardiac lesions, arteriosclerosis in children, histochemistry of renal diseases, alterations of myoid material in bile canaliculi and ducts in hepatic diseases. (Dr. H. Puchtler and Mrs. F. Waldrop)

PTH 506. University Hospital Pathology Laboratory.
(Special Elective) (1 month; June through May)

Electives will be offered in most phases of practice of pathology including surgical pathology, autopsies, hematology, blood banking, chemistry, bacteriology, cytology, or radioisotopes. Special work will be assigned to the student for background purposes. (Drs. Mitchner, Murphy, McFarland & Sharma)

PTH 507. Experimental Cancer Research. (Special Elective) (3 months; June through March)

Each student will be able to participate in current research in experimental cancer or he can initiate a project. Several inbred strains of mice are available. The following categories are suggested: (a) chemical carcinogenesis, (b) mammary tumor (virus and hormones), (c) hepatomas (enzymatic pattern), (d) leukemias (pathogenesis), (e) tissue culture and tumor transplantation (cell biology), (f) ultrastructure of tumor cells. (Dr. Akamatsu) Fellowship can be arranged.

PTH 508. Nuclear Medicine. (1 month; September through April)

Students will participate in the service offered by the department on a preceptor basis. They may expect to become familiar with current applications of radioisotopes to clinical problems. (Dr. Ihnen)

PTH 509. Surgical Pathology. (1 or 2 months; June through March)

To participate in all activities of the Division of Surgical Pathology. Limited responsibility under close supervision will be commensurate with ability and interest. (Dr. Otken)

PTH 510. St. Francis Pathology Laboratory. (Special Elective) (2 months; June through May)

Depending on the specific background and needs of the student, various programs can be arranged ranging from the performance and study of autopsies and surgical pathology material to the acquisition of knowledge in specific laboratory tests, introduction to automated system in the clinical laboratory. Correlation of clinical data with symptoms and a clinical course of patients. Development and work on specific research problems in the field of genetic and developmental anomalies. Problems of neural anatomy and neuropathology. (Dr. H. J. Peters) (Arrangements through Dr. Chandler)

PTH 511. Athens General Hospital Pathology Laboratory. (Special Elective) (2 months; June through May)

This will be a program in clinical laboratory medicine with emphasis on clinical and laboratory correlation. In addition, there will be some experience in laboratory technique. There will also be the opportunity to perform autopsies and examine surgical pathology specimens. (Dr. James R. Clay)

PTH 516. Teaching Elective in General and Special Pathology. (1 to 4 months; September through May)

Responsible involvement in teaching of pathology during Phase II using the case teaching seminar methods. The major divisions of subject material, i.e., inflammation, neoplasia, etc., afford opportunity for the student to prepare himself and his teaching materials in a circumscribed area. At least one formal lecture should be a part of this experience.

PTH 517. St. Joseph's Hospital Pathology Laboratory.
(2 to 3 months; June through May)

Students are instructed and participate in the description of gross surgical specimens in cytological techniques, frozen section techniques, an in autopsy pathology. This can be extended to any facet of radioisotope procedures and clinical laboratory procedures including automation. This program is flexible and can offer areas of study other than surgical and autopsy pathology. The student will be expected to attend approximately five conferences weekly. (Dr. John T. Godwin) (Arrangements through Dr. Chandler)

PTH 518. Laboratory Medicine. (1 to 4 months; September through June)

Application of modern clinical microbiological techniques including cultures and antibiotic sensitivity to patient care. Opportunity for participation in special techniques such as fluorescent antibody studies, anaerobic cultures, mycology, and serological procedures will be available. (Dr. Glassman and Staff)

PTH 519. Clinical Chemistry. (1 to 4 months; September through June)

Application of biochemistry, pathophysiology, instrumentation and statistics to the interpretation of data for the diagnosis of patients. Opportunity to work on specialized pieces of equipment including twelve channel auto analyzer and anatomic absorption spectrophotometer will be available. (Dr. Glassman and Staff)

PTH 520. Hematology and Hematopathology. (1 to 4 months; September through June)

Patient care and diagnosis through the utilization of theoretical and practical aspects of the clinical Hematology Lab including morphology of peripheral blood and bone marrow smears and routine coagulation studies. General bench techniques for preparation and staining of blood and bone marrow smears as well as practical operation of diagnostic instruments used in evaluation of the coagulation mechanism will be stressed. Patient rounds and individual investigational studies will be available. (Dr. Glassman and Staff)

PTH 521. Immunohematology and Blood Banking. (1 to 4 months; September through June)

Patient care and treatment utilizing the theoretical and practical aspects of Immunohematology and modern use

of blood components. The student will be expected to learn the basic bench techniques in typing and cross matching of blood as well as the preparation of blood components. There will be didactic consideration of the immunologic, genetic and anthropologic significance of blood group and antibodies with special emphasis on their serologic and immunochemical characteristics as related to modern medical practice. (Dr. Glassman and Staff)

PTH 522. General Laboratory Medicine. (1 to 4 months; September through June)

Patient care through the practical application of clinical laboratory methods and evaluation of results is the basis of the elective. Fulfillment of this objective will be pursued through patient rounds, interpretation of laboratory data, participation in patient treatment particularly the use of blood and blood components, attempting to develop an appreciation for sources of false data generation either internally or externally, the development of tests and their evaluation as to future clinical utilization and active participation in Laboratory Medicine on didactic presentations. An opportunity to develop the techniques in Hematology, Microbiology, Clinical Chemistry, Microscopy, Immunohematology and Blood Banking will be available. (Dr. Glassman and Staff)

PTH 523. Cardiac Pathology. (1 to 4 months; September through June)

Special study of a facet of heart disease may be arranged. Such studies will be in the area of cardiovascular disease using morphologic and histochemical techniques. Emphasis is on pathophysiology and structural basis. Usually two elective periods or an elective and fellowship period will be required to complete the project. (Dr. J. R. Teabeaut, II)

PTH 524. Introduction to Nuclear Medicine. (Duration and months: by arrangement)

The student will be provided an opportunity to become familiar with: technical aspects of dynamic and static imaging, renograms, "wet work," isotopic thyroid studies; interpretation of the above in clinical and/or diagnostic terms; safety standards and techniques; clinical correlation in terms of the usefulness of nuclear medicine in solving specific diagnostic problems. (Dr. R. Hand)

PTH 525. Radio Bioassay. (1 to 3 months; September through May)

The use of isotopes in the chemistry laboratory for the quantitation of antigen-antibody reactions measuring biochemical materials present in small nanogram quantities in the blood. (Drs. Alexander and Mitchener)

PTH 526. Laboratory Hematology. (1 month; September, November, January, March and May)

Prerequisite: Sophomore (minimum)

Aims and learning objectives: the student should be able to: (1) identify, classify and recognize the function of the blood cell as they relate to human health and disease, (2) recognize the significance of different hematology tests, the information obtained from each, its clinical implication and understand the principle involved, (3) classify anemias and their causes, leukemias and lymphoproliferative disorders, plasma cell dyscrasia, coagulation defects, and (4) understand the fundamental of hemotherapy. (Dr. F. John)

PTH 527. Basic Neuropathology. ETMH (Enrollment: 1 min.; 2 max.) (1 month; June)

Prerequisites: Completion of Phase I & II; personal interview

This is a basic neuropathology course designed only for a student who intends to choose neuropathology, neurosurgery, neurology, or neurophysiology as his career. The course is flexible in proportions of laboratory and clinical experience. (Dr. F. Yaghamai)

Pediatrics

PED 500. Basic Clerkship in Pediatrics. (June through May)

A six weeks pediatric clerkship to provide basic grounding in child health and human development. It is organized to help students develop skills in pediatric history taking and physical diagnosis and in the interpretation of laboratory findings in the various age groups, including nursery, ward and outpatient clinics. The recognition of normal developmental patterns as well as the impact of age in the expression of disease will be emphasized.

PED 501. Neonatology Clerkship and Newborn Follow-Up.

PED 502. Fort Gordon Pediatric Clinic.

PED. 503. Off-Campus Clerkship. (Special Elective)

PED 504. Pediatric Clerkship at Gracewood.

PED 505. Multidisciplinary Approach to the Child with a Birth Defect.

PED 506. Pediatric Hematology.

PED 507. Pediatric Neurology.

PED 508. Pediatric Cardiology.

PED 509. Clinical Allergy and Immunology.

PED 510. Respiratory Illness in Children.

PED 511. Pediatric Research. (Special Elective)

PED 512. Pulmonary Vascular Impedance Studies.

Pharmacology

PHM 101. Undergraduate Pharmacology. Augusta College (5-0-5 hours)

Lectures on general principles of drug action and the specific action of selected proprietary drugs, chemotherapeutic agents, anti-inflammatory drugs, autonomic drugs, cardiovascular-renal drugs, hormones, and central nervous system drugs. Offered at Augusta College in conjunction with their Biology Department.

PHM 301, 302, 303. Introduction to Pharmacology. (5 hours)

Lectures and laboratory exercises designed to survey the interactions between drugs and living systems. The emphasis is on chemicals and drugs used in the treatment of disease; what they do and how the body responds and disposes of them. Six hours lectures/laboratory per week.

PHM 311. Pharmacology for Dental Hygienists.

As a member of the health team, the hygienist may be called upon to use certain topical agents, take and understand a patient health history, acquire and inventory certain medications, and assist in cardiopulmonary emergencies. Major emphasis is on principles and dental

therapeutic agents, but also includes drugs used medically.

PHM 501. Toxicology. (Special Elective)

Lecture and laboratory studies on aspects of toxicology including heavy metals, gaseous poisons, industrial and agricultural chemicals, plants and venoms, and selected drugs. Treatment and selected case reports will also be included.

PHM 502. Adrenergic Pharmacology. (Special Elective)

An in-depth review of adrenergic drugs as applied to clinical medicine. Conducted as a participative discussion. Presented by Dr. Ahlquist.

PHM 503. Preparation of Frozen Sperm, Blood and Other Tissues for Clinical Use. (Special Elective)
(1 month) Didactic 20%; Laboratory 80%

The student will learn how to freeze sperm and blood in such a way that the viability of the cells is maintained. The student will participate in the day-to-day operation of a clinical sperm bank. The student will read and discuss basic principles of cryobiology. The student will select other cells, tissues or organs on which to study in-depth the effects of freezing.

PHM 504. Clinical Pharmacology. (Special Elective)
(1 hour per week per quarter)

A cooperation elective presented by Department of Pharmacology and Section of Clinical Pharmacology and Hypertension (Dept. of Medicine). Presentation of clinical cases selected to illustrate appropriate and inappropriate use of drugs in patient management. Intended for junior and senior medical students and house staff.

PHMD 521. Dental Pharmacology.

A general course for dental students serving as a foundation for understanding drugs which dental patients use (medically) and is prerequisite for the course Dental Therapeutics, PHMD 531. The topics covered include: general pharmacodynamics (principles of drug action) and descriptive studies of the following drug categories: autonomic, nervous system, cardiac, renal, hematological, endocrine and G.I.

PHMD 531. Dental Therapeutics.

Continuation of PHMD 521 with an emphasis on drugs used by dentists. Posology and prescription writing are emphasized. Topics covered are drugs used for chemotherapy of infection and for control of pain including the psychological aspects of patient care. In addition, special problems in drug therapy of oral tissues are emphasized.

Physiology

PHY 210. Introductory Human Physiology. (4-1-5 hours)
(Winter)

The elements of human physiology with an introduction to the function of the major organ systems of the body their interaction and control.

PHY 311. Principles of Human Physiology I and II. (5-1-5 hours)
(Fall)

Prerequisites: Inorganic chemistry, one physics course and a course in human anatomy (may be taken concurrently); or permission of the Instructor

A two quarter sequence giving detailed coverage of the major organ systems of the body, their interactions and

control. This will include lectures, demonstrations, discussion groups, and laboratory work as appropriate.

PHY 312. Principles of Human Physiology I and II. (5-1-5 hours)

Prerequisite: PHY 311

A continuation of Physiology 311.

PHY 501. Special Elective in Physiology.
Topics, times and credit hours to be arranged

PHY 550. Medical Physiology I. (6-1-7 hours)
(Winter)

Prerequisite: First year standing in School of Medicine

First of a two quarter sequence presenting an intensive treatment of mammalian organ systems: the cell, electrophysiology; peripheral nerve and reflexes; muscle; cardiovascular.

PHY 551. Medical Physiology II. (8-2-10 hours)
(Spring)

Prerequisite: PHY 550

Continuation 551, respiration body fluids and kidney, gastrointestinal, endocrine.

PHY 590. Review of Human Physiology. (5-0-6 hours)
Prerequisite: Graduate standing in the School of Nursing or permission of the Department of Physiology

A review of human physiology emphasizing current concepts of organ function and their relationship to disease states.

PHY 701. Survey of Physiology I. (6-1-7 hours)
(Winter)

Prerequisites: Inorganic and organic chemistry, physics and one year of biological sciences or equivalent or permission of Department Chairman

First of a two quarter sequence presenting an intensive treatment of mammalian organ systems; the cell, electrophysiology; peripheral nerve and reflexes; muscle; cardiovascular.

PHY 702. Survey of Physiology II. (8-2-10 hours)

Prerequisites: Inorganic and organic chemistry, physics and one year of biological sciences or equivalent or permission of Department Chairman

Respiration body fluids and kidney, gastrointestinal, endocrine.

PHY 703. Survey of Neurophysiology. (4-1-5 hours)
(Winter)

Prerequisite: Permission of Department

Peripheral and central nervous system physiology including special senses.

PHY 802. Cardiodynamics. (3 hours)

Physiology of the heart, including structure, development, action as muscle and dynamics of its pumping action. Little

PHY 803. Peripheral Circulation. (3 hours)

A study of the architecture and hemodynamics of peripheral vasculature. Weatherred.

PHY 804. Muscle Physiology. (3 hours)

Mechanics of muscle contraction—excitation contraction coupling. Contractile proteins and chemistry of contraction. Theory of contraction (Skeletal, heart and smooth muscles). Delahayes.

PHY 805. Blood Flow Regulation. (3 hours)

A study of the determinants affecting cardiac output and peripheral flow, with consideration of the techniques of measuring the flow. Wiedmeier.

PHY 806. Respiration. (3 hours)

A study of the mechanics and the control of respiration including consideration of experimental measurement. Miller and Hofman.

PHY 807. Body Fluid Regulation. (3 hours)

Prerequisites: PHY 701, 702, 703, 703 and/or permission of Instructor

A study of current concepts of regulation of body fluid volume and composition. Laboratory experiences in measurement of renal function and body fluid volumes will provide data to be interpreted in the light of current and classical literature.

PHY 813. Electrophysiology. (3 hours)

Theoretical basis of electrophysiological phenomena; recording apparatus and technique; and the electrophysiology of cell tissues and excitable structures. Delahayes.

PHY 815. Radioisotopes in Biological Research. (3 hours)

The theory, utility and methodology for the use of radioisotopes in biological research. Reichard.

PHY 816. Motor Systems. (3 hours)

Survey of neurophysiological mechanisms which underlie cerebral, cerebellar and basal ganglia control of voluntary movement. Stoney.

PHY 820. Radiobiology. (3 hours)

Cellular and physiological effects of ionizing radiation. Reichard.

PHY 821. Sensory Systems. (3 hours)

A guided survey of the basic principles of functional organization of somatic and special sensory systems. Emphasis on coding and synaptic processing of sensory information. Doetsch.

PHY 822. Biological Substrates of Learning and Motivation. (3 hours)

A survey of the electrophysiological neuroanatomical and biochemical correlates of learning and motivation. Included will be an assessment of techniques used in this area of study. Jackson.

PHY 823. The Application of Control Theory to Physiological Systems. (3 hours)

The study of the techniques to mathematically describe a physiological process and the aspects of control theory that are effective in the analysis of a system. Computer simulation of selected physiological systems. Miller and Williams.

PHY 824. Physiology of Thyroid and Parathyroid Hormone. (3 hours)

Control of secretion, synthesis and metabolism of thyroid hormones along with present concepts of general metabolic function of thyroid hormones. The latter half of the course will involve a study of the control of secretion of thyrocalcitonin and parathyroid hormones and how these two hormones interact as regulators of plasma and tissue levels of calcium, magnesium and phosphorus. Hendrich.

PHY 899. Special Topic Seminar Courses in Physiology. (HTBA) Staff

Special topic courses taught as seminars in the areas of cardiovascular, renal, respiratory, muscle, neuro and endocrine physiology.

PHY 901, 902, 903. Seminar in Physiology. (1 hour each) Staff**PHY 921. Investigation of a Problem. (Credit to be arranged)****PHY 930. Research. (for Dissertation or Thesis) (Credit to be arranged)****Psychiatry****PSY 500. Basic Psychiatry.**

This required clerkship will provide the student with intensive experience with psychiatric inpatients. With collaboration and guidance of the staff, he will do a complete work-up on assigned patients, including physical examination, mental status, and psychodynamic case formulation. He will then proceed with treatment with emphasis on supervised psychotherapy, including medication and other therapies as indicated.

PSY 502. General Psychiatry Tutorial. (Special Elective) (1 or 2 months; by arrangement with Coordinator)

Designed for students with specific interest in other areas of Psychiatry who wish to pursue this interest on their own with minimum supervision. Readings in General Psychiatry or other specific areas will later be discussed with supervisor.

PSY 503. Clinical Clerkship. Fort Gordon (Special Elective) (1 or 2 months; June through May by arrangement with Coordinator)

Supervised case workers and treatment of psychiatric inpatients or outpatients or patients in the Drug and Alcohol Program. Various treatment modalities are utilized, including individual and group psychotherapy, psychopharmacologic treatment and Half-Way House.

PSY 505, 506. Adolescent Psychiatry. (Psy 505-1 month, Psy 506-2 months; through Spring)

This clerkship will provide the student with clinical experience with inpatient and outpatient adolescents.

PSY 507, 508. Child Psychiatry. (Psy 507-1 month, Psy 508-2 months; June through May)

The student is provided guided experience, reading and research related to the child (age 11 and under) having behavioral, learning or developmental difficulties.

PSY 509. Clinical Clerkship. (Special Elective) (1 or 2 months; by arrangement with Coordinator)

These clerkships provide supervised experience in the evaluation and treatment of people with a variety of psychiatric disorders, and is supplemented by conferences and didactic instruction.

PSY 510. Psychotherapy and Other Modes of Treatment. (Special Elective) (2 months; July through May) Prerequisite: PSY 500

This elective will stress various therapeutic techniques including psychotherapy, drug and various organic therapies involving adults, adolescence and possibly

children. Due to the fact that this elective involves primary patient care it will be impossible to include vacation time.

PSY 512. Alcohol and Drug Abuse. (2 months; June on)

Varied clinical experience with drug and alcohol problems at several facilities; selected reading list, several psychiatrists and other disciplines will supervise the experience.

PSY 513. Off-Campus. (Special Elective) (1 month; by arrangement)

Course is designed for students who wish to pursue electives in other off-campus teaching centers. Student is responsible for making arrangements for electives with the selected teaching center offering appropriate clinical experience.

PSY 514. Sociological Research on Mental Illness. (1 month; by arrangement)

Prerequisite: Undergraduate Sociology course(s) recommended

Directed reading-discussion of research process in sociology as applied to understanding the causation, development, recognition, and treatment of various forms of mental illness; problem formulation, research design, concept measurement, and data collection and analysis.

Radiology

RAD 501. Diagnostic Radiology. (1 month)

This elective is designed to introduce the student to the place of Radiology in medical practice and an approach to film analysis. Seminars of various aspects of Diagnostic Radiology with emphasis on *approach* to problems will be presented by our faculty. Residents work with students on the day by day clinical application of Radiology. An introduction to Radiation Oncology and Nuclear Medicine are also part of this survey elective.

RAD 502. Radiobiology (Medical Biology) (Special Elective) (1 month)

This course provides a general overview of the field of radiobiology as it applies to clinical radiology, particularly, diagnostic radiology, nuclear medicine and radiotherapy.

RAD 503. Radiobiology. (Special Elective) (1 or 2 months)

This course provides an advanced knowledge of radiobiology to students who have taken RAD 502. Individual students may elect to study in-depth for a period of one or two months, a specific research project in the laboratory, library, or in conjunction with some clinical application.

Phase I. Elective: Radiobiology (Radiology and Physiology)

This course provides a general understanding of ionizing radiations to the medical student; what it is, how it is produced, what its effect on man and his environment are.

Phase I. Elective: Radioisotopes in Biology and Medicine. (Radiology and Physiology)

This course provides an introductory guide to the medical student interested in the use of radioisotopes in medicine.

RAD 504. Advanced Clerkship in Diagnostic Radiology. (Special Elective) (1 or 2 months)

Prerequisite: RAD 501

A concentration in one of the subspecialties of Radiology, such as Pediatric Radiology, Neuroradiology, or a combination of one week concentrations in these areas including Special Procedures and Office Radiology.

RAD 505. Off-Campus Elective. (Special Elective) (1 month)

An elective in Radiology at any medical center where an elective similar to Radiology 501 is offered and space is available.

RAD 506. Radiology Preceptorship. (Special Elective) (1 month)

A one month elective with a private radiologist or group in which the preceptor accepts responsibility for reading assignments as well as daily conferences with emphasis on basic approaches to Diagnostic Radiology in all of its general facets.

RAD 507. Clerkship in Radiation Therapy—Oncology. (1 to 3 months)

The student will be afforded an opportunity to see a large variety of tumors treated with various modalities of radiation therapy. He will participate in tumor conferences at the various hospitals and also attend the radiation therapy cancer clinics at the Talmadge and University Hospitals. He will get experience in the work-up and general management of the cancer patient in the areas of curative therapy, palliation, and supportive care.

RAD 508. Nuclear Medicine Elective. (1 month)

The Nuclear Medicine Elective is a one month elective given from September through May. It is limited to two students. Its purpose is to familiarize the student with nuclear medicine procedures and how they are used. Students participate in daily readout sessions and work closely with the resident as he does procedures during the day. Although most of the activities will be at Talmadge, arrangements can be made for experience at other local hospitals.

RAD 509. The Business Aspects of Medical Practice. (Special Elective) (1 month)

Students should become knowledgeable about problem areas that are frequently encountered in opening a new medical practice. They should be acquainted with current trends in health care and be motivated to expand their knowledge in areas of interest. A student should know whose advice and counsel to seek when certain problems are encountered in the business management area. A student should become aware of the various choices a physician must make when going into medical practice and the possible consequences of certain of these choices.

Surgery

SUR 500. Basic Clerkship in Surgery.

This eight week course is the basic course required of all students and is the prerequisite for many surgical electives involving contact with patients. Instruction includes basic concepts of Emergency Medicine and Anesthesiology. Students are assigned patients in General Surgery for total patient care participation, including

complete write-ups and participation in operative procedures. They take part in ward rounds, conferences, tumor conferences, journal club, seminars and informal discussions. Student activities involve both inpatients and outpatients.

SUR 501. Clerkship. (1 month; June through May)

Prerequisite: SUR 500

Consists of working with patients, residents, and faculty in preoperative, intraoperative, and postoperative care, participating in all regularly scheduled teaching, patient care and research conferences of general surgery.

SUR 502. Research Elective. (Special Elective)

(2 to 4 months; June through May)

An area of mutual interest to the student and his supervisor will be selected and the student will outline his research project, carry it out under supervision and submit to his supervisor, a satisfactory report of this work toward the end of the project. For some projects, students will undertake the project singly, in others, in pairs. Projects may be undertaken in the Experimental Surgery Laboratory or in the Clinical Research Wing and an occasional project may involve the use of Clinical Hospital Records. Reference is given to summer months (May through August), but arrangements may be made for other times.

SUR 503. Dog Surgery. (1 month; September, February, May)

Consists of morning sessions of seminar discussions of anatomy, physiology and clinical coordination with the operative procedures performed during the afternoons. Emphasis is placed on surgical technique and each student will perform five operations as well as function as first assistant, scrub nurse and anesthesiologist.

SUR 504. Tutorial. (Special Elective) (1 to 2 months; June through May)

Individual students may elect to study in-depth, for a period of one to two months, any specific area in surgery under the guidance of the faculty member most familiar with that specific area. A thesis or report on the subject chosen is a necessary part of this elective. No student is eligible for more than one such elective.

SUR 505. Preceptorship. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Clinical experience with individual private preceptor, in his office, operating room, and hospital. (Individual arrangements must be made through both the Chairman of Surgery and the Clinical Surgeon involved.)

SUR 506. Off-Campus Experience. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Students may elect off-campus experience in some phase of surgery in some other Medical School or Institution for a period of one to two months. For help in making arrangements, interested students should contact the Medical College of Georgia counterpart of the individual at the other institution with whom he wishes to work. Such electives must be an identifiable course of instruction. An evaluation of the student's performance will be required. No student is eligible for more than one such elective. (Arranged through the Chairman of Surgery).

SUR 507, 508. Kidney Transplantation.

(507-1 month, 508-2 months; June through May)

Students will assist with care of the post-transplant patients and pre-transplant patients. (Arranged through Dr. A. Humphries).

SUR 509. Emergency Room Clerkship. (1 month; June through May)

Prerequisite: SUR 500

This clerkship offers active participation in the care of patients in the University Hospital Emergency Department under the direction of Drs. L. Lambert and J. Sacra. Students can expect to gain experience in the rapid assessment of acutely ill and injured patients. The schedule will be arranged on a rotating basis to provide approximately 180 hours of active involvement in the care of emergency patients. (Arranged through Chairman of Surgery).

SUR 510. Surgery Clerkship, General Surgery.

(1 to 2 months; June through May)

Prerequisite: Core curriculum

The student will be assigned to a surgical floor where he will see, evaluate and scrub on surgical cases under the direct supervision of a surgical resident and Dr. Robert Schoffstall, Chief of Surgery. He will attend all surgical conferences, ward rounds and surgical outpatient clinics. He will be expected to actively participate in all areas. Night call will be every third night and every third weekend.

SUR 511. Surgery Clerkship, Emergency Room. (1 to 2 months; June through May)

Prerequisite: Core curriculum

Students will be assigned for eight hour shift and will be under direct supervision of eight full-time E.R. physicians. They will be expected to see, evaluate and suggest emergency treatment of patients. They will also be encouraged to follow patients who are admitted by scrubbing with the surgical residents or attending physicians when appropriate. They will also be expected to attend all those teaching conferences which do not conflict with emergency problems in which they may be involved. Interested students should contact Dr. Robert Schoffstall, Chief of Surgery, Assistant Professor of Surgery, Medical Center, Box 6000, Macon, Georgia 31208 (912-742-1122).

SUR 512. Substitute Internship. (1 to 2 months; June through May—as vacancies occur in intern schedule)

Prerequisite: SUR 500

Students on this elective would function as substitute interns on the General Surgical Services at the Medical College of Georgia Hospitals. Students are not advised to take this elective unless there is a vacancy in the schedule since overstaffing would dilute the experiences available. The student will be assigned to a specific surgical service and will function as an integral part of that service. The student would be expected to initiate the clinical data base, begin diagnostic measures, and where possible to perform surgical procedures with supervision. In addition, he will participate in the teaching responsibilities, conferences, clinics, and operating experiences of the service to which he is assigned and will be assigned night call responsibilities. (Arranged through Dr. Charles H. Wray or Dr. Arlie R. Mansberger).

SUR 520. Neurosurgery Clerkship. (1 month; June through May)

Arranged through Dr. Marshall Allen.

SUR 521. Neurosurgery Research Elective. (Special Elective) (2 to 4 months; June through May)

Arranged through Dr. Marshall Allen.

SUR 522. Neurosurgery Tutorial. (Special Elective) (1 to 2 months; June through May)

Arranged through Dr. Marshall Allen.

SUR 523. Neurosurgery Preceptorship. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Dr. Marshall Allen.

SUR 524. Neurosurgery Off-Campus Experience. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Dr. Marshall Allen.

SUR 525. Neurosurgery Elective at the University Hospital. (1 to 2 months; June through May)

This elective offers the student a choice of one or two inroads into the specialty of neurological surgery. Firstly, it allows him to become acquainted with the general idea of what neurological surgery is. This is accomplished by the student making ward rounds daily with the resident and the attending as a unit. Here, he gets a general idea of the major problems involving the brain and spinal cord. As a continuation of this idea, the student, in company with the resident and the attending physician, observes diagnostic studies performed in x-ray such as myelography, arteriography and pneumocephalography. A natural continuation down this road is the student's participation in the surgical suite as a first or second assistant. The second road into the specialty gives the student a chance for a more in-depth penetration, if he so desires, into the radiosotope field as it involves neurosurgery or into the field of neuroradiology and even neuropathology. The student attends a neurological surgical conference once a week in which all of the preceding problems are discussed. The student, thus, is a welcome member of the neurosurgical team.

SUR 530. Ear, Nose, Throat. (1 month; June through May-Except July)

Prerequisite: SUR 500

This clerkship is designed to familiarize the student with diseases of the ears, nose and throat with emphasis on physical examination of the head and neck, radiology of the head and neck, audiometrics, and treatment of common ENT diseases. The student will also be introduced to the principles of head and neck surgery, facial plastic surgery, endoscopy and neuro-otology. (Student arrangement with Fort Gordon).

SUR 531. Otolaryngology Surgery. (1 or 2 months; August through May)

Prerequisite: To be determined

This clerkship is designed to familiarize the student with the diseases of the ears, nose and throat with emphasis on diagnostic techniques, including physical examination techniques, radiology, audiometrics and endoscopic procedures. The student will be introduced to the principles of head and neck surgery, facial plastic surgery, endoscopy and neuro-otology. The utilization of the office and hospital patients will allow the student to

participate in, and observe the specialty of otolaryngology as practiced in our community. (Arrangements made through Dr. Porubsky).

The following orthopedic electives are a minimum of one month and designed to give an in-depth view of orthopedic principles and practice and are planned to be flexible in assignment. Rotating coverage at University Hospital is expected from those electing 541, 543, 544. Each student on all electives will write a brief paper on some aspect of special interest. All didactic teaching sessions will be attended. Phase III students electing University Hospital ER must have had two weeks of orthopedic core or spend the first two weeks at ETMH or VA.

SUR 541. Orthopedics Clerkship. (1 month; June through May)

Prerequisite: SUR 500

Arranged through Faculty Coordinator—Dr. Ed Berg.

SUR 542. Orthopedics Research Elective. (Special Elective) (1 to 2 months; June through May)

Arranged through Faculty Coordinator—Dr. Ed Berg.

SUR 543. Orthopedics Tutorial. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Faculty Coordinator—Dr. Ed Berg.

SUR 544. Orthopedics Preceptorship. (Special Elective) Augusta Private Office or Fort Gordon or Emergency Room at University Hospital (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Faculty Coordinator—Dr. Ed Berg

SUR 545. Orthopedics Off-Campus Experience. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Faculty Coordinator—Dr. Ed. Berg.

SUR 546. Hand Surgery. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Faculty Coordinator—Dr. Ed Berg.

SUR 551. Pediatric Surgery. (1 to 2 months; June through May)

Prerequisite: SUR 500

Pediatric Surgery Elective is offered to those completing the Surgery Core. Designed to introduce the student to the fundamentals involved in the clinical care of the Pediatric Surgical patient. (Dr. Robert A. Parrish)

SUR 561. Thoracic and Cardiac Clerkship. (1 month; June through May)

Arranged through Dr. Robert G. Ellison.

SUR 562. Thoracic and Cardiac Research Elective. (Special Elective) (2 to 4 months; June through May)

Arranged through Dr. Robert G. Ellison.

SUR 563. Thoracic and Cardiac Tutorial. (Special Elective) (June through May)

Arranged through Dr. Robert G. Ellison.

SUR 564. Thoracic and Cardiac Preceptorship. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Dr. Robert G. Ellison.

SUR 571. Urology Clerkship. (1 month; June through May)

Prerequisite: SUR 500

Arranged through Dr. R. Witherington.

SUR 572. Urology Preceptorship. (Special Elective) (1 to 2 months; June through May)

Prerequisite: SUR 500

Arranged through Dr. R. Witherington.

SUR 581. Plastic Reconstructive Surgery. (1 to 2 months; June through May)

Participation in ward work, rounds, clinics and OR as determined by level of training.

Arranged through Dr. Still.

School of Nursing

Adult Nursing

NSG 251. Adult Nursing I. (4-2-5 hours)

Introduction to nursing in an episodic setting. Emphasis is placed on development of communication and assessment skills relative to the concepts of stress and adaptation, infection, and limited motion. Opportunities are provided to construct data bases, identify health problems, and develop alternatives for nursing intervention.

NSG 252. Adult Nursing II. (2-6-5 hours)

Prerequisite: NSG 251

A continued development of communication and assessment skills relative to the concepts of respiration, autoregulation, and fluid-electrolyte balance. Opportunities are provided in client-care settings to implement nursing interventions.

NSG 254. Adult Nursing III. (2-6-5 hours)

Prerequisites: NSG 251, NSG 252 or taken concurrently

A continued development of communication and assessment skills relative to the concepts of neurological integrity and sensory deprivation. Opportunities are provided in client-care settings to develop and implement alternatives for nursing intervention and evaluate the effects of nursing actions.

NSG 325. Nursing in Human Loss and Grieving. (5-0-5 hours)

Prerequisite: Junior standing

Study of the conceptual models of loss, grief, death, and dying and their application in the nurse-client interaction.

NSG 404. Seminar and Practicum in Episodic Nursing. (2-6-5 hours)

Prerequisite: Senior standing or permission of the Instructor

Students are provided the opportunity to learn and apply nursing theory and process in acute care settings.

NSG 406. Nursing in Crisis Situations. (4-2-5 hours)

Prerequisite: Senior standing or permission of the Instructor

A study of stress models applied to crisis situations with emphasis on nursing interventions.

NSG 431. Forensic Nursing. (5-0-5 hours) (Open)

Prerequisite: Senior classification

Analysis of the sources of law affecting nursing and the legal responsibilities of the professional nurse in client interactions, emergency care, and in societal role. Liability for negligence, and malpractice are considered within the framework of professional standards and accountability.

NSG 490. Introduction to Clinical Nursing Research. (4-2-5 hours)

Analysis of selected clinical nursing research studies including criteria of significance and methodology; analysis and synthesis of findings with implications for practice. Systematic investigation and report of a selected research problem in nursing practice.

NSG 506. Nursing Assessment in Physical Diagnosis. (2-4-5 hours)

Prerequisite: Graduate standing. Open to senior undergraduates by permission of the Instructor only

A course designed to provide the student with physical examination skills and basic laboratory procedures requisite to establishing a data base for determining a client's degree of wellness or deviation from wellness.

NSG 703A. Adult Nursing. (4-2-5 hours)

An in-depth psychophysiological exploration of the concepts of anxiety, stress, body image, and adaptation as they relate to and influence nursing practice. Selected experiences provide for study of individual adult client needs and assessment of client care.

NSG 703B. Adult Nursing. (4-2-5 hours)

Prerequisite: NSG 703A

Conceptualization of nursing theory as it applies to clinical practice in adult nursing. Concepts of stress and adaptation are related to clients with specific psychophysiological problems to identify needs for nursing care interventions.

NSG 704. Practicum: Teaching Adult Nursing. (2-8-5 hours)

Prerequisites: NSG 703A and NSG 703B; EDU 700, 701

A course designed to assist students in generating new alternatives and expanding old ones for teaching nursing. Experiences are provided in selecting and implementing a variety of learning strategies.

NSG 705. Practicum: Clinical Specialization in Adult Nursing. (2-8-5 hours)

Prerequisites: NSG 703A and NSG 703B

Guided learning experiences are provided for students to implement a role as clinical specialist in areas of interest.

NSG 713. Perspectives in Adult Health. (4-2-5 hours)

An overview of the major health problems experienced by adults today. Clinical advances are studies which will affect the nurse-clinician's role. Opportunities are

provided for assessment of the common health problems in adult clients.

Distributive Nursing

NSG 150. Distributive Nursing. (4-2-5 hours) (Open)

An introduction to nursing as a science, a process, and a profession with major emphasis on primary prevention and health maintenance. Students are introduced to current trends in health care delivery and ways in which nursing interfaces with other health professions. Opportunities are provided for the student to learn and demonstrate basic assessment and communication skills. In addition, the student will explore concepts of self-awareness, caring, and the role of the nurse as the client advocate.

NSG 317. Community Health Organization. (4-2-5 hours)

Study of the background, new developments and trends in the nation's health care systems. The objectives of major health and health related programs their general sponsorship and requirements are considered. Emphasis is placed on financing, organizing and delivery of health services.

NSG 318. Epidemiology in Community Health. (4-2-5 hours)

An introduction to basic epidemiological concepts as applied to groups of people. Included are those pertaining to infectious, noninfectious, chronic diseases and handicapping conditions. Emphasis is placed on the study of relationships between environment, health status and group characteristics. The student will plan an epidemiological study.

NSG 326. Nursing in Human Sexuality. (4-1-5 hours)

The study of biological and cultural determinants of sex and sexual behavior. Examination of health issues and personal values related to sex and sexual relationships with consideration of their effects on and implications for contemporary nursing practice.

NSG 405. Seminar and Practicum in Distributive Nursing. (2-4-5 hours)

Students are provided the opportunity in a program of individualized study, to learn and apply nursing theory and process in selected non-acute care settings.

NSG 416. Investigation of a Problem in Community Nursing. (2-6-5 hours)

Students are provided the opportunity in a program of individualized study to learn and apply nursing theory and research methodology in the investigation of a community nursing problem.

NSG 419. Family Health Services. (2-6-5 hours)

In-depth study of the delivery of health care to families. Emphasis will be on the developmental tasks of each family member and the relationship to preventive health measures. Assessment skills, interviewing skills and teaching skills will be stressed utilizing families and groups of clients in a distributive setting.

NSG 421. Occupational Health Nursing. (2-4-5 hours) Prerequisite: Senior classification

Study of the nursing process for the purpose of conserving, promoting and restoring the health of indi-

viduals and groups through their place of employment. Includes the social and health characteristics of the working population, legal aspects, and functions and organization of occupational health programs at the plant, state, and federal levels. Environmental factors are included.

NSG 453. Nursing Trends. (5-0-5 hours)

An analysis of the trends and current problems in nursing and their relationship to nursing education programs and to the practice of professional nursing.

NSG 781. Advances in Clinical Practice. (5-0-5 hours)

Consideration of human and technological factors influencing change in clinical nursing practice. Exploration of the present and potential contribution of clinical research to nursing practice.

Maternal—Child Nursing

NSG 351. Family Nursing I. (5-10-5 hours)

This course focuses on the concept of the levels of wellness and deviations from wellness of the family and family roles during the child-bearing and child-rearing years. Emphasis is placed on assessment skills, physiological and developmental principles which aid the professional nurse in formulating a therapeutic family care program.

NSG 352. Family Nursing II. (5-10-5 hours)

Clinical experiences cover a variety of episodic and distributive settings wherein the student is given the opportunity to gain skill in the nursing process concentrating on the child-bearing and child-rearing phases of the family. Students will implement and evaluate a planned therapeutic family care program with an assigned family.

NSG 354. Nursing in the Child-bearing Family. (5-10-5 hours)

The course will focus on the maternity cycle and the family. The student will have the opportunity to gain clinical experience within his chosen component of the child-bearing cycle.

NSG 355. Nursing in the Child-bearing Family. (5-10-5 hours)

The course will focus on the child-rearing period of the family. The student will have the opportunity to gain clinical experience within his chosen component of the child-rearing cycle.

NSG 420. School Nursing. (5-5-5 hours) Prerequisite: Senior classification

An in-depth study of the nursing process as used in the school health program; the organizational patterns in which the school nurse practices, and the legal aspects pertaining to preventive and emergency care.

NSG 430. Nursing Science. (5-5-5 hours) Prerequisite: NSG 490

Study of selected principles, laws and conceptual frameworks applied to nursing theory building and testing of knowledge.

NSG 432. Health Legislation, Economics, and the Nurse. (Open) (4-2-5 hours)

Prerequisite: Senior classification

A study of current legislation on health education,

health care including insurance and other fiscal planning, research in the health care system with consideration of effects on contemporary professional nursing practice.

NSG 709. The Family and Health Care Delivery. (5-0-5 hours)

Growth and development of the family is the framework within which theories of man, society, health, stress and adaptation and nursing will be studied. The evolving role of nursing within the changing health care delivery system will be emphasized to assist the students to formulate their own theories of family health care.

NSG 710A. Maternal—Child Nursing. (5-0-5 hours)

Exploration of nursing, psychological and sociological theories contribute to the understanding of health maintenance, prevention and treatment during the child-bearing and child-rearing stages of family development. Physiological aspects of these two stages which relate to nursing care will be considered. Through clinical experiences and classroom discussion the student will develop the ability to utilize the theories and physiological aspects to intervene during a family crisis.

NSG 710B. Maternal—Child Nursing. (2-6-5 hours)
Prerequisite: NSG 710A

A continuation of NSG 710A.

NSG 711. Practicum: Teaching Maternal—Child Nursing. (2-8-5 hours)

Prerequisites: NSG 710A & B, EDU 700 and 701

NSG 712. Practicum: Clinical Specialization, Maternal—Child Nursing. (2-8-5 hours)

Prerequisites: NSG 710A & B

NSG 714. Practicum: Family Nurse Clinician. (2-6-5 hours)

Prerequisites: NSG 710A; NSG 713

Guided learning experiences are provided for students to implement a role as family nurse clinician in areas of interest.

Mental Health— Psychiatric Nursing

NSG 320. Nursing Process. (5-5-5 hours)

Analysis of the scientific process by which nursing theory is translated into practice. Emphasis is placed on assessment, formulation of data bases, identification of problems, development of nursing alternatives, and evaluation of interventions.

NSG 333. Mental Health and Psychiatric Nursing I. (5-10-5 hours)

The focus of this course is the role of the baccalaureate nurse who functions with a multidisciplinary team in the prevention of mental illness and the care, treatment and rehabilitation of mentally ill patients. Determinants will focus on the person as he relates to self, others, and his total environment, and reacts to the stresses of life. The role of nurse in fostering growth in self and others will be emphasized. The basic approach is open discussion, to clarify thinking, share learning experiences, encourage discussion of "feelings," enlarge upon students' previously gained knowledge of normal growth, developmental behaviors, mental health, and mental illness.

NSG 334. Mental Health and Psychiatric Nursing II. (5-10-5 hours)

Students work with "healthy" families in their own environment (distributive) as well as working intensively with selected patients in three major psychiatric settings (episodic). Observational experiences are also provided within community resources for the mentally ill and the mentally retarded. Students are exposed to theories which include both descriptive and dynamic approaches.

NSG 380. Applied Group Dynamics. (5-5-5 hours)

Analysis of group theory and roles, practice in membership and leadership roles in the Health Care Team.

NSG 721A. Mental Health and Psychiatric Nursing. (5-5-5 hours)

Psychopathology as a unique life situation. There is concurrent clinical extension of theory in selected facilities. Explanation of the process of psychotherapy and the therapist role is initiated in the course.

NSG 721B. Mental Health and Psychiatric Nursing. (5-10-5 hours)

The essential act of caring is manifested by engagement in the development of nursing theory and principles through clinical inquiry and the application of research methodology.

NSG 722. Practicum: Teaching Mental Health and Psychiatric Nursing. (2-8-5 hours)

Prerequisites: NSG 721A and B; EDU 700 and 701

NSG 723. Practicum: Clinical Specialization, Mental Health—Psychiatric Nursing. (2-8-5 hours)

Prerequisites: NSG 721A and B

Nursing Administration

NSG 489. Management Science in Health Care Delivery. Open (4-2-5 hours)

The study of current social issues related to health care; issues and problems in nursing; principles of leadership; professionalism; the management of human resources for the delivery of nursing care for clients.

NSG 740, 741. Seminar in Nursing Administration. (Open) (4-2-5 hours)

Application of concepts and principles of administration and personnel management in the nursing service situation. The case method is used for added realism in problem solving.

NSG 742. Practicum in Nursing Administration. (2-6-5 hours)

Prerequisites: NSG 740 and 741

Observation of, and limited participation in the administration of a nursing service department. The experience is guided by a preceptor in an agency selected jointly by the student and major professor. Field conferences of students, faculty and agency personnel permit the exchange of ideas related to field problems.

NSG 743. Practicum: Teaching Nursing Administration. (2-6-5 hours)

Prerequisites: NSG 740, NSG 741

Other Courses

NSG 399. Independent Study. (Variable Credit)

EDU 600. Educational Psychology. (5-0-5 hours) (Open)

Theories of learning and their application in higher education.

EDU 601. Social Organization. (5-0-5 hours) (Open)

A study of the basic principles of social organization including an examination of how groups and complex organizations are structured and how they function as structures.

EDU 621. Group Dynamics. (5-5-5 hours)

EDU 700. Curriculum and Instruction in Higher Education. (Open) (5-0-5 hours)

Provides the student with a knowledge of the curriculum of higher education. An attempt is made to show that curriculum as a whole is involved with objectives, content, strategies, teaching, and learning; their interrelationships, and their involvement in the teaching-learning process.

EDU 701. Methods of Educational Evaluation in Higher Education. (Open) (5-0-5 hours)

A systematic development of evaluation procedure appropriate to the evaluation of student performance. Considerations of validity and reliability, selected statistical procedures and the relationship.

EDU 702. Methods of Educational Research. (Open) (5-0-5 hours)

A systematic treatment of the methodologies appropriate to educational research: fundamentals of statistical inference, research design and critical analysis of research reports. The student will be expected to design and appropriate research experience.

NSG 921. Investigation of a Problem. (Credit to be arranged)

Prerequisite: Admission to candidacy

NSG 930. Research, Project, or Guided Elective Elective Study. (Var.)

Prerequisite: Admission to candidacy

Appendixes

Appendix A

University System of Georgia Board of Regents

	Current Term
JOHN A. BELL, JR., Dublin	State-at-Large 1970-1977
LAMAR R. PLUNKETT, Bowdon	State-at-Large 1974-1981
JESSE HILL, JR., Atlanta	State-at-Large 1973-1978*
MILTON JONES, Columbus	State-at-Large 1974-1981
SAM A. WAY, III, Hawkinsville	State-at-Large 1972-1976*
MRS. HUGH PETERSON, SR., Ailey	First District 1970-1976
CHARLES T. OXFORD, Albany	Second District 1975-1982
JOHN H. ROBINSON, III, Americus	Third District 1972-1979
JOHN R. RICHARDSON, Conyers	Fourth District 1970-1977
ELDRIDGE W. McMILLAN, Atlanta	Fifth District 1975-1982
DAVID H. TISINGER, Carrollton	Sixth District 1971-1978
JAMES D. MADDOX, Rome	Seventh District 1973-1980
CHARLES A. HARRIS, Ocilla	Eighth District 1971-1978
P. R. SMITH, Winder	Ninth District 1973-1980
CAREY WILLIAMS, Greensboro	Tenth District 1972-1979

*Unexpired portion of seven-year term

Officers and Staff

- CHARLES A. HARRIS, Chairman
- JOHN A. BELL, JR., Vice Chairman
- GEORGE L. SIMPSON, JR., Chancellor
- JOHN O. EIDSON, Vice Chancellor
- JOHN W. HOOPER, Associate Vice Chancellor
- HENRY G. NEAL, Executive Secretary
- SHEALY E. McCOY, Vice Chancellor-Fiscal Affairs and Treasurer
- JOSEPH HAMMOCK, Vice Chancellor-Academic Development
- FRANK C. DUNHAM, Vice Chancellor-Construction and Physical Plant
- MARIO J. GOGLIA, Vice Chancellor-Research
- HOWARD JORDAN, JR., Vice Chancellor-Services
- HARRY B. O'REAR, Vice Chancellor-Health Affairs
- HASKIN R. POUNDS, Assistant Vice Chancellor
- JAMES L. CARMON, Assistant Vice Chancellor-Computing Systems
- MARY ANN HICKMAN, Assistant Vice Chancellor-Personnel
- ROBERT M. JOINER, Assistant Vice Chancellor-Communications
- HARRY H. MURPHY, JR., Director of Public Information
- C.C. MURRAY, Director of Interinstitutional Programs in International Affairs

Appendix B

Administration

President

William H. Moretz

President Emeritus

Edgar R. Pund

Vice-President and Treasurer

James A. Blissit

Dean, School of Allied Health Sciences

Raymond C. Bard

Dean, School of Dentistry

Judson C. Hickey

Dean, School of Graduate Studies

San A. Singal

Dean, School of Medicine and Medical Director

Curtis H. Carter

Dean, School of Nursing

Dorothy T. White

Dean Emerita

Louise E. Grant

Director, Business Services

Donald C. Smith

Director, Division of Systems and Computer Services

J.B. Mathews

Comptroller

H. Alan Campbell

Comptroller Emeritus

Thomas N. Dwyer

Director, Division of Biomedical Communications

Paul J. Brucker

Administrator For Hospital and Clinics

Richard E. Gillock

Director, Division of Institutional Relations

James C. Austin

Director, Division of Internal Auditing

Lewis K. Parrish, Jr.

Librarian

Thomas G. Basler

Director, Personnel Division

John C. Evers

Director, Division of Public Safety

William S. Tynan

Director, Physical Plant Division

W. Clay Adamson, Jr.

Director, Procurement

Willard W. Prior

Director, Division of Student Affairs

James B. Puryear

Associate Director

Bernard J. Abbott

Assistant Director, Minority Student Affairs

James E. Carter, III.

Registrar

George M. Martin

Director of Financial Aid

Cheryl Wilkes

Coordinator of Housing and Placement

James McLeod

Coordinator of Admissions

School of Allied Health Sciences

School of Nursing

Jennie L. Loudermilk

Asst. Coordinator of Admissions

School of Allied Health Sciences

School of Nursing

Elizabeth Griffin

Assistant Director of Financial Aid

Larry E. Grabb

Appendix C

Faculty Listings

* Asterisk indicates Graduate Faculty Appointment.

Abbott, Bernard J., Assistant Professor, Health Education. Florida State University, B.S., M.S.

***Abdel-Latif, Ata A.**, Professor, Cell and Molecular Biology. DePaul University, B.S., M.S.; Illinois Institute of Technology, Ph.D.

Abele, Donald C., Professor, Dermatology and Medicine. Central Methodist College, B.A.; Washington University Medical School, M.D.

Abney, Thomas O., Assistant Professor, Endocrinology. University of Georgia, B.S., M.S., Ph.D.

Achord, James L., Associate Professor, Medicine. Emory Medical School, M.D.

Ackerman, Richard, Assistant Professor, Orthodontics. Kansas City, D.D.S.

Ackerman, Robert, Instructor, Periodontics. Medical College of Georgia, D.M.D.

Adams, Homer G., Instructor, Surgery (Otolaryngology). Auburn University, B.A., M.S.

Adams, Lamar T., Assistant Professor and Medical Director, Physician's Assistant. Wake Forest University, B.S.; Bowman Gray School of Medicine, M.D.

Adams, Sarah Chapman, Clinical Instructor, Physical Therapy. Medical College of Georgia, B.S.

Agostas, William N., Clinical Professor, Medicine. Augusta College; University of Georgia; Medical College of Georgia, M.D.

Ahearn, A. Mason, Clinical Instructor, Surgery (Orthopedics). Cornell University, M.D.

***Ahlquist, Raymond P.**, Professor, Pharmacology. University of Washington, B.S., M.S., Ph.D.

Akamastu, Yasuyuki, Assistant Professor, Pathology. Nara Medical College, M.D.; Osaka University, Ph.D.

Alexander, V. Thomas, Assistant Clinical Professor, Medical Technology. Kerala University, B.S., B.Ed., M.S.; University of Virginia, Ph.D.

***Allen, Lane**, Professor, Anatomy. University of Georgia, B.S., M.S.; Georgetown University, Ph.D.; Medical College of Georgia, M.D.

Allen, Marshall B., Jr., Professor and Chief, Surgery (Neurosurgery). University of Mississippi, B.A.; Harvard University, M.D.

Allen, Patrick, Assistant Professor, Oral Surgery. University of Tennessee, D.D.S.; University of Minnesota, M.S.

Allen, Virginia, Instructor, Occupational Therapy. Indiana University, B.S.

Allgood, Andrew, Instructor, Restorative Dentistry. Medical College of Georgia, D.M.D.

Allison, J. Richard, Associate Clinical Professor, Dermatology. University of North Carolina, A.B.; Medical College of South Carolina, M.D.

Allmond, Reamer, Clinical Dentist, Pediatrics. Medical College of Georgia, D.M.D.

Althisar, Henry M., Assistant Professor, Medicine, Medical College of Georgia, M.D.

Alvarez-Mena, Sergio C., Associate Clinical Professor, Medicine. LaSalle College, B.S.; Matanzas Institute, B.S.; Havannah School of Medicine, M.D.

Anderson, Ann S., Associate Professor, Medical Technology. University of Georgia, B.S.; Medical College of Georgia, M.S.

Anderson, Frank P., Jr., Professor, Pediatrics, Chief, Section Respiratory Science. Davidson College, B.S.; Medical College of South Carolina, M.D.

Anderson, Stanley J., Instructor, Restorative Dentistry. Medical College of Georgia, D.M.D.

Andrews, Dale H., Associate Professor, Restorative Dentistry. College of Physicians and Surgeons, D.D.S.

Anusavice, Kenneth, Assistant Professor, Restorative Dentistry, Worcester Polytechnic Institute, B.S.; University of Florida, Ph.D.

Armour, Genevieve, Instructor, Maternal-Child Nursing. Montana State University, B.S.N.

Arnette, Ann H., Clinical Instructor, Medical Technology. Erskine College, A.B.

Arnold, McAlpin H., Assistant Professor, Family Practice. George Washington University, B.A., M.D.

Aseron, Cirilo, Assistant Professor, Pediatrics and Radiology. University of Santo Tomas, Manila, M.D.

Asokan, Sankaran K., Associate Professor, Medicine. All India Institute of Medical Science, M.B.B.S.

***Ault, Leilee P.**, Professor and Research Assistant to the Dean, School of Nursing. University of Pennsylvania, B.S.N.E., M.S.

Aziz, Ezzat M., Associate Professor, Pediatrics. W. Middlesex Hospital, London, England, D.C.H.; Shams University, Cairo, Egypt, M.B.

Baab, Beatrice S., Instructor, Physical Therapy. Sargent College-Boston University, B.S.

Badaruddin, Syed S., Clinical Instructor, Medical Technology. Osmania University, B.S.; Georgia Institute of Technology, B.S.; Medical College of Georgia, B.S.

Badger, Walter L., Assistant Professor, Community Dentistry. University of Maryland, D.D.S., D.D.S.

Bailey, Henry W., Clinical Instructor, Surgery. Medical College of Georgia, M.D.

Bailey, Joseph P., Jr., Associate Dean, Acting Chairman, Professor, Medicine. Chief, Rheumatology. Mercer University, B.S.; Medical College of Georgia, M.D.

Bailey, Thomas E., Associate Clinical Professor, Pediatrics. Medical College of Georgia, M.D.

Barchiesi, Alessandro, Associate Professor, Psychiatry. University of Rome, M.D.

***Bard, Raymond C.**, Professor, Cell and Molecular Biology. Dean, School of Allied Health Sciences. College of the City of New York, B.S.; Indiana University, M.A., Ph.D.

Barfield, William E., Assistant Professor, Obstetrics and Gynecology. The Citadel, B.S.; Emory University, M.D.

Barton, Betty, Research Associate, Pathology. University of South Carolina, M.S., B.S.

Basler, Thomas G., Associate Professor of Health Communications, Librarian, University of Miami, B.Ed; Florida State University, M.S.

Bass, William, Clinical Instructor, Pedodontics. Emory University, D.D.S.

Batchelor, Bill, Instructor, Pedodontics. Medical College of Georgia. D.M.D.

Bathey, Louis L., Clinical Professor, Medicine. College of the Holy Cross, B.S.; Medical College of Georgia, M.D.

Battle, Lucius W., Jr., Assistant Clinical Professor, Prosthodontics. Emory University, D.D.S.

Brazemore, J. Malcolm, Clinical Professor Emeritus, Medicine. Medical College of Georgia, M.D.

Beaudreau, David E., Associate Dean, Clinical Sciences. Professor, Restorative Dentistry. University of Washington School of Dentistry, D.D.S.; University of Pennsylvania, Graduate School of Medicine, M.S.D.

Beckham, Richard W., Chairman and Assistant Professor, Respiratory Therapy. University of Florida, B.S., M.Ed.

Becton, James L., Assistant Clinical Professor (Orthopedics). Wake Forest College, B.S.; University of Minnesota, M.S.; Medical College of Georgia, M.D.

Beeson, C. Walker, Assistant Clinical Professor, Medicine. University of Georgia, B.S.; Medical College of Georgia, M.D.

Beglau, Donald, Assistant Professor, Restorative Dentistry. Mt. San Antone Junior College, A.A.; LaSierra College, B.A.; Loma Linda University School of Dentistry, D.D.S.

Belk, Beverly, Assistant Professor, Pediatrics. Mercer University, A.B.; Medical College of Georgia, M.D.

Bell, Lee, Instructor, Periodontics. Medical College of Georgia, D.M.D.

Bemis, Susan A., Assistant Professor, Physical Therapy. San Diego State College, B.A.; University of California, B.S.; State University of New York, M.S.

Bennett, James W., Professor, Pediatrics. Medical College of Georgia, M.D.

Bennett, Robert, Clinical Professor, Medicine. University of Minnesota, M.S.; University of Pittsburgh, B.S., M.D.

Benton, Edred C., Assistant Professor, Periodontics. Emory University, B.S.; Emory University School of Dentistry, D.D.S., M.S.D.

Berg, Edward W., Associate Professor, Surgery (Orthopedics) and Assistant Professor, Medicine (Rheumatology). University of Colorado, B.A., M.D.

Berlin, Jacob, Assistant Professor, Coordinator of Counseling Resources, Mental Health-Psychiatric Nursing. University of North Carolina, M.S.

***Best, Gary K.**, Associate Professor, Cell and Molecular Biology. Southwestern State College, B.S.; Oklahoma State University, Ph.D.

Bhalla, Vinod K., Assistant Professor, Endocrinology. St John's College, Agra University, B.S., M.S.; National Chemical Laboratory, Ph.D.

Bhatti, Nazir A., Assistant Professor, Surgery (Orthopedics). Government College, F.Sc.; King Edward Medical College, M.B.B.S.

Bigger, John F., Associate Professor, Ophthalmology. Duke University, A.B.; Washington University School of Medicine, M.D.

Bittle, C. Robert, Assistant Clinical Professor, Anesthesiology. Duke University; Bowman Gray School of Medicine, M.D.

***Black, Owen, Jr.**, Assistant Research Professor, Medicine and Cell and Molecular Biology. University of Oklahoma, B.S.; University of Oklahoma Medical Center, M.S., Ph.D.

Blackburn, David, Instructor and Administrative Supervisor, Radiologic Technologies. Shorter College, B.S.; University of Tennessee, M.S.

Blalock, H. Sherman, Assistant Professor, Surgery (Orthopedics). Shorter College, A.B.; Medical College of Georgia, M.D.

Blanchard, Thomas W., Assistant Professor, Surgery (Urology). The Citadel, B.S.; Medical College of South Carolina, M.D.

Blevin, Keith S., Assistant Professor, Oral Surgery. Hope College, B.A.; Medical College of Virginia, School of Dentistry, D.D.S.

Blitch, Pierce G., Jr., Assistant Clinical Professor, Medicine. Emory University, A.B.; Medical College of Georgia, M.D.

Bliven, Floyd E., Jr., Professor, Surgery. Chief, Orthopedics. University of Rochester, A.B., M.D.

Boaz, Ruth, Clinical Instructor, Medical Record Administration. East Tennessee State University; Wesley Memorial Hospital, Northwestern University, R.R.A.

***Bockman, Dale E.**, Professor and Chairman, Anatomy. Southwestern Missouri State College, B.S.; Los Angeles State College, M.A.; University of Illinois, Ph.D.

Boineau, John P., Professor, Medicine. University of South Carolina, B.S.; Duke University, M.D.

Botnick, Robert S., Associate Clinical Professor, Medicine, Duke University, B.S.; Baylor Medical School, M.D.

Bowden, Talmadge A., Jr., Assistant Professor, Surgery, University of Georgia, B.S.; Medical College of Georgia, M.D.

Bowen, John B., Associate Clinical Professor, Surgery. Medical College of Georgia, M.D.

Bowers, Irma W., Clinical Instructor, Medical Technology. North Georgia College, B.S.

Bowles, Lester L., Professor Emeritus of Anatomy, Franklin College, A.B., Indiana University, M.D.

Boyd, Claud A., Clinical Instructor, Dermatology. University of Mississippi, B.S.; University of Miami, M.D.

Boyd, William S., Associate Clinical Professor, Obstetrics-Gynecology. University of Georgia, B.S.; Emory University, M.A.; Medical College of Georgia, M.D.

Bramblett, Richard M., Assistant Professor, Health Systems and Information Sciences; Assistant Director for Systems Development, Systems and Computer Services. Georgia Institute of Technology, B.I.E., M.S.I.E., Ph.D.

Bransome, Edwin, Jr., Professor, Medicine; Chief of Metabolic and Endocrine Disease. Yale University, A.B.; University of Colorado, M.D.

Braselton, W. Emmett, Jr., Assistant Research Professor, Medicine; Assistant Professor, Endocrinology. University of Wisconsin, B.S., M.S., Ph.D.

***Bresnick, Edward**, Professor and Chairman, Cell and Molecular Biology. St. Peter's College B.S.; Fordham University, M.S., Ph.D.

Bridges, H. Benton, Clinical Instructor. Surgery (Orthopedics). Emory University, A.B.; Medical College of Georgia, M.D.

Bridges, Mercer T., Instructor. Surgery (Orthopedics). Furman University, B.A.; Columbia University, M.A.; Medical College of Georgia, M.S.

Brizel, Herbert, Professor and Chief, Radiation Therapy. Cornell University, A.B.; Northwestern University, M.D.

Brocato, Simone, Clinical Instructor, Medicine. Loyola University, B.S.; Tulane University, M.D.

Bronstein, Edwin, S., Professor and Chief, Maternal Health and Family Planning. State University of New York, B.A.; University of California, Berkeley, M.P.H.; Downstate Medical Center of New York, M.D.

Brooks, Bonnie M., Chief Occupational Therapist and Instructor, Occupational Therapy. Indiana University, B.S.

Brooks, Jack D., Assistant Professor, Community Dentistry. Indiana University, D.D.S.; Iowa University, M.S., M.A.

Brown, Allen N., Assistant Clinical Professor, Community Medicine. Meharry Medical College, M.D.

Brown, Barbara N., Clinical Instructor, Dermatology. Furman University, B.S.; Medical University of South Carolina, M.D.

Brown, Deedee H., Clinical Instructor, Medical Record Administration. Medical College of Georgia, B.S.

Brown, Jessie O., Assistant Professor, Dental Hygiene and Community Dentistry. University of Alabama, R.D.H.; Medical College of Georgia, B.S.

Brown, James D., Assistant Professor, Assistant Coordinator for Patient Care. Tufts University, D.M.D.

Brown, Mark, Professor, Radiology. Chief, Nuclear Medicine. Medical Director, Radiologic Technology. University of Miami, B.S.; Vanderbilt University, M.D.

Brown, Stephen W., Associate Clinical Professor, Radiology. Louisiana State University, B.S., M.D.

Brown, Walter J., Jr., Professor, Medicine, (Hypertension and Clinical Pharmacology). Brown University, A.B.; University of Rhode Island, M.S.; Medical College of Georgia, M.D.

***Brownell, George H.**, Associate Professor, Cell and Molecular Biology. University of Minnesota, B.A.; University of South Dakota, M.A., Ph.D.

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